

- 澳門大學的校徽由一個五座城堡冠頂的盾牌和分別用中葡文書寫的「澳門大學」的校名字樣組成。
- 書上的鑰匙是知識之匙，用以打開知識寶庫；四周的海浪代表著大學身處中國海域的一個小島上。
- 大橋寓意文化的溝通，是連接東西方文化的象徵。
- 「仁、義、禮、知、信」為中國聖賢提倡的五種美德典範。
- 校徽採用紅、藍、金三色，代表著希望、幸福及人類之進步。

## Emblem

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For University of Macau



- The emblem of the University of Macau features a five-towered crest encircled by golden rings and the name of the University in Chinese and Portuguese.
- The key on the book is the key to knowledge, and the waves represent the University in its island setting in the South China Sea.
- The Bridge links together the Eastern and Western cultures.
- On the ribbon is a Chinese motto listing the five virtues of an ideal scholar: humanity, integrity, propriety, wisdom and sincerity.
- The colours are red for hope, blue for the joy of well-being, and gold for the advancement of humanity.



# Vision

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澳門大學以立足澳門，共建灣區，融入國家，走向世界為發展定位，通過以學生為本的優質教育、具國際影響力的重點研究，以及高水平的社會服務，矢志成為一所國際公認的卓越大學。

The University of Macau (UM) wishes to position itself as a university with firm roots in Macao, while at the same time being committed to participating in the development of the Greater Bay Area. UM hopes to integrate itself into national development while reaching out to the world. Through quality student-centred education, key research subjects with international impact, and a high standard of community services, it aspires to become an internationally recognised university of excellence.

# Mission

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澳門大學充分發揮其以中華文化為主流、多元文化共存的校園環境，協同學院與書院的全人教育體系以及國際化的辦學模式等特色 and 優勢，致力於：

The University of Macau endeavours to leverage its uniqueness and strengths, as highlighted by a learning environment where Chinese culture plays a major role and diverse cultures coexist, and by a system of whole-person education underpinned by faculties and residential colleges in an international education setup. The university is committed to:

- 秉承“仁、義、禮、知、信”的校訓；  
Upholding the university motto – Humanity, Integrity, Propriety, Wisdom and Sincerity;
- 培養具家國情懷、國際視野、全球競爭力和有社會責任感的公民和創新型人才，服務澳門、國家及世界發展所需；  
Cultivating citizens with innovative abilities who exhibit love for their home country, possess global perspectives and competitiveness, and shoulder social responsibilities necessary for the development of Macao, the nation and beyond;
- 促進學術研究，推動產學研合作，助力澳門經濟社會可持續發展，助力粵港澳大灣區建設、服務國家，貢獻人類；  
Promoting academic research and industry-academia-research cooperation to facilitate sustainable socio-economic development of Macao and support the development of the Guangdong-Hong Kong-Macao Greater Bay Area, thus serving the nation and humanity at large;
- 植根澳門，多層次、全方位服務澳門社群，造福澳門社會。  
Being firmly rooted in Macao, serving and enriching the local community at multiple levels and on all fronts.





# CONTENTS

<b>University Almanac .....</b>	<b>5</b>
<b>The University .....</b>	<b>8</b>
<b>Governance and Organisation .....</b>	<b>14</b>
Chancellor.....	15
University Council Principal Officers .....	15
University Principal Officers .....	16
University Assembly.....	17
University Council .....	19
The Senate and its Sub-Committees .....	21
The Senate.....	21
1. General Affairs Committee .....	23
2. Research Committee.....	24
3. Academic Quality Assurance Committee.....	24
4. Library Committee.....	25
5. Information and Education Technology Committee.....	26
6. Graduate Studies Committee .....	26
7. General Education Committee .....	27
8. Committee on Teaching and Learning Enhancement.....	28
9. Scholarship Committee .....	29
10. Sports Committee .....	29
11. Staff-Student Consultative Committee .....	30
12. Student Disciplinary Committee.....	31
Finance Management Committee .....	32
<b>Academic Dress for Graduates .....</b>	<b>33</b>
<b>Admission Rules .....</b>	<b>36</b>
PhD and Other Doctoral Degree Programmes .....	37
Master's Degree & Postgraduate Certificate/ Diploma Programmes .....	43
Bachelor's Degree Programmes .....	52
<b>Academic Regulations and Rules .....</b>	<b>73</b>
Regulations of the Programmes of the University of Macau .....	74
General Rules Governing PhD and Other Doctoral Degree Programmes .....	77
General Rules Governing Master's Degree & Postgraduate Certificate/Diploma Programmes .....	94
General Rules Governing Bachelor's Degree Programmes.....	109

---

Examination Rules .....	124
Student Disciplinary Regulations of the University of Macau .....	129
Rules on Handling Student Academic Dishonesty .....	134
<b>Undergraduate Curriculum Model &amp; General Education Programme .....</b>	<b>140</b>
<b>Programmes of Study .....</b>	<b>171</b>
Faculty of Arts and Humanities .....	172
Doctoral Degree Programmes .....	172
Master's Degree Programmes .....	183
Bachelor's Degree Programmes .....	201
Faculty of Business Administration .....	304
Doctoral Degree Programmes .....	304
Master's Degree Programmes .....	309
Bachelor's Degree Programmes .....	316
Faculty of Education .....	397
Doctoral Degree Programmes .....	397
Master's Degree Programmes .....	400
Postgraduate Certificate/Diploma Programmes .....	412
Bachelor's Degree Programmes .....	415
Faculty of Health Sciences .....	476
Doctoral Degree Programmes .....	476
Master's Degree Programme .....	479
Bachelor's Degree Programmes .....	480
Faculty of Law .....	504
Doctoral Degree Programmes .....	504
Master's Degree Programmes .....	505
Postgraduate Certificate/Diploma Programme .....	512
Bachelor's Degree Programmes .....	513
Faculty of Science and Technology .....	598
Doctoral Degree Programmes .....	598
Master's Degree Programmes .....	604
Bachelor's Degree Programmes .....	624
Faculty of Social Sciences .....	713
Doctoral Degree Programmes .....	713
Master's Degree Programmes .....	722
Bachelor's Degree Programmes .....	732
Honours College .....	814
Institute of Applied Physics and Materials Engineering .....	818
Doctoral Degree Programme .....	818
Master's Degree Programme .....	820
Institute of Chinese Medical Sciences .....	827

---

Doctoral Degree Programme .....	827
Master's Degree Programmes .....	829
Institute of Collaborative Innovation .....	841
Doctoral Degree Programme .....	841
Master's Degree Programmes .....	843
Institute of Microelectronics .....	867
Master's Degree Programmes .....	867
<b>Residential Colleges .....</b>	<b>874</b>
<b>Student Life .....</b>	<b>877</b>
<b>Academic Support Services .....</b>	<b>887</b>
Centre for Teaching and Learning Enhancement .....	888
Information and Communication Technology Office .....	889
University Library .....	891
<b>Research Centres and Laboratories .....</b>	<b>892</b>
Research Centres .....	893
Laboratories .....	900
<b>Appendices .....</b>	<b>904</b>
Honorary Degrees and Titles .....	905
Arrangements of Classes and Final Examinations during Typhoons or Rainstorms in Macao .....	911
Guidelines for Student Conduct in the Classrooms .....	913
Acceptable Use Policy - ICTO Computing Facilities, Campus Network and Internet .....	915
Academic Computing Facility Room Rules .....	920
Fees and Charges for 2025/2026 Newly Admitted Students .....	924
Tuition Fee 2025/2026 .....	925
Fees and Other Charges .....	938
Rules Governing the Use of UM Campus Card .....	941
Academic Prizes .....	943
Scholarships and Studentships .....	947
Undergraduate Scholarships .....	948
Postgraduate Scholarships and Assistantships .....	963
Principals' Recommended Admission (PRA) Rules .....	968
Rules on University of Macau Lotus Scholarship for Admission Examination .....	974
Scholarship Continuation Policy for UM's Outgoing Exchange Students .....	976
Funding Guidelines for PhD and Master's Students .....	977
Statistics of Registered Students for Academic Year 2024/2025 .....	996

---

Staff List .....	998
Fundamental Academic Units.....	999
Faculty of Arts and Humanities .....	999
Faculty of Business Administration .....	1012
Faculty of Education .....	1023
Faculty of Health Sciences .....	1031
Faculty of Law .....	1041
Faculty of Science and Technology.....	1049
Faculty of Social Sciences.....	1060
Independent Academic Units .....	1070
Asia-Pacific Academy of Economics and Management.....	1070
Centre for Continuing Education.....	1072
Centre for Macau Studies .....	1073
Graduate School .....	1074
Honours College.....	1075
Institute of Advanced Studies in Humanities and Social Sciences.....	1078
Institute of Applied Physics and Materials Engineering .....	1079
Institute of Chinese Medical Sciences .....	1082
Institute of Collaborative Innovation.....	1085
Institute of Microelectronics .....	1088
Residential Colleges.....	1091
State Key Laboratory of Analog and Mixed-Signal VLSI .....	1093
State Key Laboratory of Internet of Things for Smart City (University of Macau) .....	1096
State Key Laboratory of Quality Research in Chinese Medicine .....	1099
Administration and Support Services .....	1102
Staff List index.....	1108
Campus Map .....	1131
Enquiries .....	1133

# University Almanac

# University Almanac for Academic Year 2025/2026

Week	S	M	T	W	T	F	S	Events	Public Holidays and University Recesses
August 2025									
						1	2		
	3	4	5	6	7	8	9	4	Last day of Student Summer Recess
	10	11	12	13	14	15	16		
1	17	18	19	20	21	22	23	18	First day of 1st semester's classes
2	24	25	26	27	28	29	30		
3	31								
September									
3		1	2	3	4	5	6		
4	7	8	9	10	11	12	13		
5	14	15	16	17	18	19	20		
6	21	22	23	24	25	26	27		
7	28	29	30						
October									
7				1	2	3	4		1 National Day of the People's Republic of China
8	5	6	7	8	9	10	11		2 The Day following National Day of the People's Republic of China
9	12	13	14	15	16	17	18		7 The Day following Mid-Autumn Festival
10	19	20	21	22	23	24	25		
11	26	27	28	29	30	31			29 Chong Yeong Festival
November									
11							1		
12	2	3	4	5	6	7	8		2 All Soul's Day
13	9	10	11	12	13	14	15		3 Compensatory rest day set forth in No. 4 of Article 79 of the ETAPM
14	16	17	18	19	20	21	22		
15	23	24	25	26	27	28	29		
	30								
December									
		1	2	3	4	5	6	1	Last day of 1st semester's classes
								2-4	Examination Study Period
	7	8	9	10	11	12	13	5-18	1st semester's final examinations
	14	15	16	17	18	19	20	7,14 & 19	Contingency plan for final examinations
	21	22	23	24	25	26	27		
	28	29	30	31					

Week	S	M	T	W	T	F	S	Events	Public Holidays and University Recesses
<b>January 2026</b>									
					1	2	3	2	1
1	4	5	6	7	8	9	10	7	2-6
2	11	12	13	14	15	16	17		
3	18	19	20	21	22	23	24		
4	25	26	27	28	29	30	31		
<b>February</b>									
5	1	2	3	4	5	6	7		
6	8	9	10	11	12	13	14		12-25
	15	16	17	18	19	20	21		16
6	22	23	24	25	26	27	28		17-19
<b>March</b>									
7	1	2	3	4	5	6	7		
8	8	9	10	11	12	13	14		
9	15	16	17	18	19	20	21	21-22	
10	22	23	24	25	26	27	28		
11	29	30	31						
<b>April</b>									
11			1	2	3	4			3
12	5	6	7	8	9	10	11		4
13	12	13	14	15	16	17	18		5
14	19	20	21	22	23	24	25		3-7
15	26	27	28	29	30				6-7
<b>May</b>									
15					1	2			1
	3	4	5	6	7	8	9	5	
	10	11	12	13	14	15	16	6-8	
	17	18	19	20	21	22	23	9-21	
	24	25	26	27	28	29	30	10,17 & 22	
	31								
<b>June</b>									
	1	2	3	4	5	6		4	
	7	8	9	10	11	12	13		
	14	15	16	17	18	19	20	8	
	21	22	23	24	25	26	27	11	
	28	29	30						19
<b>July</b>									
	1	2	3	4					
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30	31		31	

1. Public holidays/Exemption from work/Compensatory rest days for staff are in  .

2. Final examination days are in  .

3. University Recesses are highlighted in **RED**.

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# The University



## UM Introduction

Founded in 1981, the University of Macau (UM) is a comprehensive research-oriented public university of international standing, with a multicultural campus and a system of whole-person education underpinned by faculties and residential colleges in an international education setup. Eighty per cent of its faculty members are from outside Macao. With English as the primary medium of instruction, the university is committed to producing creative and socially responsible graduates with a global mindset and international competitiveness.

## Quality Education

Teaching units at UM include the Faculty of Arts and Humanities, Faculty of Business Administration, Faculty of Education, Faculty of Health Sciences, Faculty of Law, Faculty of Science and Technology, Faculty of Social Sciences, Honours College, Graduate School, and Centre for Continuing Education. The university's research institutes include the Institute of Advanced Studies in Humanities and Social Sciences, Institute of Applied Physics and Materials Engineering, Institute of Chinese Medical Sciences, Institute of Collaborative Innovation, Institute of Microelectronics, Asia-Pacific Academy of Economics and Management, and Centre for Macau Studies.

UM has over 15,000 students. For undergraduate education, the university adopts a '4-in-1' collaborative education model, which consists of discipline-specific education, general education, research and internship education, and community and peer education. At the postgraduate level, UM emphasises 'knowledge integration' and 'collaborative innovation', aiming to promote interdisciplinary integration, foster innovative research, cultivate innovative talent for society, and produce high-impact research results.

With a credit system and a residential college system, the university offers over 120 degree programmes at bachelor's, master's, and doctoral levels in a variety of fields, including literature, language, business administration, marketing, accounting, finance, international integrated resort management, science, education, biomedical sciences, law, history, economics, psychology, sociology, communication, engineering, computer science, and Chinese medical sciences.

## International Reputation

UM's global standing has improved significantly in recent years. The university ranks 180th in the Times Higher Education (THE) World University Rankings, 14th in the THE Young University Rankings, 34th in the THE Asia University Rankings, and 1st among universities in the Association of Portuguese Speaking Universities (AULP). In the Quacquarelli Symonds (QS) World University Rankings, UM ranks 285th. In the U.S. News & World Report's Best Global Universities Rankings, it is ranked 230th. In addition, UM is among the top 1% in the Essential Science Indicators (ESI) database in 15 fields: Engineering, Materials Science, Computer Science, Chemistry, Clinical Medicine, Pharmacology & Toxicology, Psychiatry/Psychology, Social Sciences, General, Biology & Biochemistry, Molecular Biology & Genetics, Agricultural Sciences, Economics & Business, Environment/Ecology, Geosciences, and Mathematics. Among these, Engineering, Computer Science, and Pharmacology & Toxicology are ranked in the top 0.1%.

Many of UM programmes have received international accreditation. The Faculty of Business Administration is accredited by three major international accreditation bodies: the EFMD Quality Improvement System (EQUIS) of the European Foundation for Management Development (EFMD), the Association to Advance Collegiate Schools of Business (AACSB), and the Association of MBAs (AMBA).

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## **Internationalisation**

UM is an international university featuring a multicultural campus and a modern governance model. English is the primary medium of instruction at the university. The university recruits faculty members internationally, with 80% of them coming from outside Macao. These international characteristics have attracted outstanding students from around the world, fostering a vibrant and multicultural campus. UM continuously expands its international network to promote academic exchange and builds platforms for international collaboration to broaden students' horizons. The university has signed cooperation agreements with over 330 higher education institutions spanning more than 40 countries and regions. UM students have the opportunity to participate in exchange programmes offered by more than 180 partner institutions of the university in over 30 countries and regions. In addition, the university offers a wide range of local and overseas internship opportunities to enhance students' employability after graduation.

## **Outstanding Faculty**

UM has recruited a team of high-calibre faculty members from around the world. Many of them have earned prestigious titles, such as member of the Academia Europaea (Academy of Europe), fellow of the Royal Academy of Engineering, fellow of the Royal Society of Chemistry, fellow of the Royal Society of Biology, fellow of the Institution of Engineering and Technology, fellow of the Royal Society of Arts, member of the Academy of Sciences of Lisbon, fellow of the Institute of Electrical and Electronics Engineers, fellow of the American Association for the Advancement of Science, fellow of the American Society of Mechanical Engineers, fellow of the Society for Industrial and Applied Mathematics, fellow of SPIE (the international society for optics and photonics), fellow of the Society for Financial Econometrics, and Chang Jiang Scholar Chair Professor (Ministry of Education).

The university not only recruits top-notch scholars, but also offers attractive working conditions through the UM Talent Programme to enable faculty members to achieve their full potential and make significant achievements. Furthermore, the UM Macao Fellow scheme aims to nurture young local scholars and encourage talented professionals to develop their careers in Macao.

## **Unique Residential College System**

UM's residential college (RC) system provides a platform for knowledge integration based on the university's '4-in-1' whole-person education model, making it unique among universities in Macao. There are currently ten RCs at UM: Chao Kuang Piu College, Cheng Yu Tung College, Cheong Kun Lun College, Choi Kai Yau College, Henry Fok Pearl Jubilee College, Lui Che Woo College, Ma Man Kei and Lo Pak Sam College, Moon Chun Memorial College, Shiu Pong College, and Stanley Ho East Asia College. Working in synergy with the university's faculties, the RCs serve as a vehicle for whole-person education through systematic planning of experiential programmes to support students in achieving success in both their studies and personal development. The RCs aim to enhance students' seven competencies: responsible citizenship, global competitiveness, knowledge integration, teamwork and collaboration, service and leadership, cultural engagement, and healthy lifestyle.

## **Cutting-Edge Research**

UM adopts a research policy that can be summarised as 'highlighting characteristics, leveraging strengths, creating peaks, and strengthening cooperation', focusing on supporting academic disciplines that reflect Macao's characteristics, meet the needs of Macao and the country, and align with international trends. UM has established a '3+3+3+3' strategic research

layout, with the four 3s referring to three state key laboratories (State Key Laboratory of Mechanism and Quality of Chinese Medicine, State Key Laboratory of Analog and Mixed-Signal VLSI, and State Key Laboratory of Internet of Things for Smart City), three emerging research fields (precision medicine, advanced materials, and regional oceanography), three interdisciplinary research fields (artificial intelligence and robotics, data science, and cognitive and brain sciences), and three research platforms for the humanities and social sciences (Institute of Advanced Studies in Humanities and Social Sciences, Centre for Macau Studies, and Asia-Pacific Academy of Economics and Management). The university encourages interdisciplinary collaboration, especially the integration of modern technology in the humanities and social sciences.

UM actively expands national and regional research platforms. In chip research, the university focuses on electronic systems, with particular emphasis on analog-to-digital converters and ultra-low-power RF integrated circuits. UM also promotes research in power management and microfluidics. Researchers in microelectronics at UM have received numerous awards, including the second prize of the State Scientific and Technological Progress Award, the Xplorer Prize, and a number of Macao Science and Technology Awards. Notably, 15 papers from UM were accepted at the 2023 International Solid-State Circuits Conference, demonstrating UM's leading position in microelectronics research. In the field of Chinese medicine, UM is committed to quality research and developing international standards. The university has established quality standards for more than 20 Chinese medicinal herbs, which are now referenced in authoritative publications such as the United States Pharmacopeia (USP), European Pharmacopoeia (Ph. Eur.), and Chinese Pharmacopoeia (ChP). These achievements have received significant recognition, including the second prize of the State Scientific and Technological Progress Award, gold awards at the International Exhibition of Inventions of Geneva, over 40 Macao Science and Technology Awards, and the Macao Science and Technology Special Award. Guided by the 'dual carbon' strategy and the vision of creating a liveable and resilient smart city, UM's research on Internet of Things for smart city is committed to strategically fundamental and applied research. The university has produced a number of internationally recognised and impactful results, including the second prize of the State Scientific and Technological Progress Award, the Guanghai Engineering Science and Technology Prize, and a number of Macao Science and Technology Awards.

Moreover, UM houses five key research institutes affiliated with the Ministry of Education, and has established six joint laboratories with the Chinese Academy of Sciences. Currently, UM operates over 30 joint laboratories in collaboration with various businesses, institutions, and universities, which further expands the scale and impact of its research.

UM actively supports entrepreneurship and knowledge transfer to enhance the social impact of its research. The Hengqin University of Macau Advanced Research Institute (HUMRI), Zhuhai UM Science & Technology Research Institute (ZUMRI), and UMTEC Limited are among the key units that support the university's industry-academia collaboration initiatives. As UM's first industry-academia demonstration base in the Guangdong-Hong Kong-Macao Greater Bay Area (GBA), ZUMRI serves as a collaborative hub for developing the GBA into an international technology and innovation centre. It leverages the research strengths of UM's three state key laboratories and institutes with competitive disciplines to integrate into the GBA, participate in national research projects, accelerate technology transfer, and promote the development of emerging industries. In addition, the Centre for Innovation and Entrepreneurship at UM, which was approved by the Ministry of Science and Technology in 2019 to serve as a national co-working space, has incubated over 60 start-ups. It is committed to assisting faculty and students in transforming their research results into tangible products. In 2023, UM obtained approval to establish HUMRI, which can contribute to the economic diversification of Macao and industrial development in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin.

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## **Building Strong Alliances**

UM has established strong strategic partnerships with leading academic institutions worldwide, including those in mainland China, Portuguese-speaking countries, and the English-speaking world. The university has launched joint training programmes with world-renowned universities, including Imperial College London, the University of Edinburgh, the University of Bristol, the University of Leeds, Queen's University Belfast, Temple University, the University of Lisbon, the University of Porto, Fudan University, Zhejiang University, Xiamen University, South China University of Technology, and East China Normal University.

In addition, UM has established six joint laboratories with institutes under the Chinese Academy of Sciences to carry out joint research and development projects in five areas: brain sciences, artificial intelligence, spatial information, ocean environment and engineering, precision medicine, and Chinese medicine.

## **Serving Macao**

UM is dedicated to studying Macao across a range of fields, including literature, history, society, law, education, and commerce. By providing empirical data and theoretical analyses, the university aims to enrich the cultural life and enhance the well-being of Macao residents. For example, UM has established the Macao Base for Primary & Secondary Education in Humanities & Social Sciences, and the Macao Base for Primary & Secondary STEM Education to support the development of basic education in Macao and serve as a fundamental platform for talent cultivation for the city. Moreover, UM leverages its strengths to build platforms to contribute to Macao's development into 'One Centre, One Platform, and One Base'. The university is committed to nurturing Chinese-Portuguese bilingual professionals, as well as talent in Chinese history and culture, data science, innovation and entrepreneurship, physics, chemistry, and biology, thus injecting impetus into Macao's development.

Aligned with the Macao Special Administrative Region (SAR) government's policy 'Education for Macao, Talent for Macao', UM continually launches new degree programmes to cultivate high-calibre professionals to support economic diversification in Macao. In 2020, the university set up the Public Administration Training Centre to help develop a talent pipeline for the Macao SAR government.

## **Creating an Environment Conducive to Education**

With the support of the central government and the Macao SAR government, UM received approval in 2009 to build its new campus on Hengqin Island in Guangdong Province, China, and the Macao SAR was authorised to exercise jurisdiction over the campus in accordance with Macao SAR laws. On 20 December 2009, the then President of China Hu Jintao officiated at the groundbreaking ceremony for the campus. Five years later in 2014, UM fully relocated to the Hengqin campus. Separated from Taipa by a river, the Hengqin campus covers approximately one square kilometre—20 times larger than the original campus in Taipa. Nestled against the scenic Hengqin Hill, the campus was designed with a people-centred approach, providing an ideal environment for academic pursuits. It also features a wide array of academic and sports facilities, including a well-stocked library, the University Hall, the Museum of Art, a swimming pool, a sports complex, an archery range, basketball courts, climbing walls, and fitness rooms.

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## Support to the University

Thanks to the support of the central government, the Macao SAR government, and various sectors of society, UM has made notable strides in recent years. The Chinese President Xi Jinping has visited UM and provided key guidance on the university's development. Moreover, in 2018, President Xi replied to a joint letter from UM and another higher education institution in Macao, urging them to cultivate more talent who love both the country and Macao while achieving more scientific and technological achievements to help Macao promote economic diversification and contribute to the development of the GBA.

As a public comprehensive university in Macao and with the chief executive of the Macao SAR as its chancellor and chair of its University Assembly, UM enjoys tremendous support from the Macao SAR government. In 2016, the university was awarded the Medal of Merit—Education by the Macao SAR government in recognition of its contributions to education, becoming the first higher education institution in Macao to receive this honour.

## Vision and Mission

Building on new opportunities in the Guangdong-Macao In-Depth Cooperation Zone in Hengqin, UM continues to broaden its educational reach. On 9 December 2024, the groundbreaking ceremony for the UM campus in the Cooperation Zone in Hengqin took place, setting the stage for UM to become the first higher education institution in Macao to extend its teaching and research activities in the Cooperation Zone in Hengqin, thus injecting fresh impetus into the development of Macao and the GBA. During this period of unprecedented expansion, UM remains committed to its motto—Humanity, Integrity, Propriety, Wisdom, and Sincerity—while consistently pursuing improvement and innovation. As a university firmly rooted in Macao, UM aims to contribute to the development of the GBA, integrate with the nation, and go global. UM aspires to become an internationally recognised university of excellence through high-quality and student-centred education, high-impact research, and outstanding community services.

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# **Governance and Organisation**

Updated on: July 2025

## Chancellor

The Chief Executive of the Macao SAR, Mr SAM Hou Fai  
澳門特別行政區行政長官岑浩輝先生

## University Council Principal Officers

### Chair of the Council

Dr LAM Kam Seng Peter 林金城博士

### First Vice Chair of the Council

Dr KOU Kam Fai 高錦輝博士

### Second Vice Chair of the Council

Mr HUEN Wing Ming Patrick 禰永明先生

### Treasurer of the Council

Mr LAU Veng Lin 劉永年先生

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# University Principal Officers

## **Rector**

Prof. Yonghua SONG 宋永華教授

PhD, China Electric Power Research Institute; DSc, Brunel University; Fellow of the Royal Academy of Engineering; Fellow of International Euro-Asia Academy of Sciences; IEEE Fellow

## **Vice Rector (Academic Affairs)**

Prof. Michael King Man HUI 許敬文教授

BBA (First class Hons), The Chinese University of Hong Kong; CAAE, IAE Aix-en-Provence; PhD, London Business School

## **Vice Rector (Global Affairs)**

Prof. Rui Paulo da Silva MARTINS 馬許願教授

BSc, MSc, PhD, Instituto Superior Técnico da Universidade Técnica de Lisboa; IEEE Fellow; Academy of Sciences of Lisbon

## **Vice Rector (Research)**

Prof. Wei GE 葛偉教授

BSc, Nanjing University; MSc, Institute of Hydrobiology, Chinese Academy of Sciences; PhD, University of Alberta

## **Vice Rector (Student Affairs)**

Prof. Kai Meng MOK 莫啓明教授

PhD, MS, BS, University of Washington (USA), Civil Engineering

## **Vice Rector (Administration)**

Dr Claudia Jian XU 徐建博士

BEng, Zhejiang University; MEng, Asian Institute of Technology; PhD, National Polytechnic Institute of Toulouse



# University Assembly

The University Assembly is a consultative body of the University. It advises on the general policies, academic plans and development plans of the University.

## Chair

Chancellor of UM and Chief Executive of the Macao SAR, Sam Hou Fai 岑浩輝

## External Members appointed by the Chief Executive

WONG Chong Fat 王宗發

HO, Carlos 何浩生

SIU Yin Wai 邵賢偉

Maria Edith da SILVA 施綺蓮

MA Iao Lai 馬有禮

KOU Hoi In 高開賢

Stanley AU Chong Kit 區宗傑

CHUI Sai Cheong 崔世昌

CHAN Hong 陳虹

Joaquim Jorge Perestrelo Neto VALENTE 華年達

FONG Son Kin 馮信堅

WONG King Keung 黃景強

IP Sio Kai 葉兆佳

YEUNG Tsun Man Eric 楊俊文

LAO Ngai Leong 劉藝良

CHENG Kar Shing 鄭家成

FOK Chun-Wan 霍震寰

TSE Chi Wai 謝志偉

Paulo TSE 謝思訓

KONG Tat Choi 鄭達財

## Chair of the University Council

LAM Kam Seng Peter 林金城

## First Vice Chair of the University Council

KOU Kam Fai 高錦輝

## Second Vice Chair of the University Council

HUEN Wing Ming Patrick 禰永明

## Treasurer of the University Council

LAU Veng Lin 劉永年

## Internal Members

Rector

Vice Rector (Academic Affairs)

Vice Rector (Global Affairs)

Vice Rector (Research)

Vice Rector (Student Affairs)

Vice Rector (Administration)

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President of the General Assembly of the University of Macau Alumni Association  
President of the General Assembly of the University of Macau Students' Union

**Secretary**

LEUNG Kai Chun Chris 梁佳俊 (Secretary-General of the University Council)

Please refer to the link below for the most updated member list of UA :  
<https://ua.um.edu.mo/membership/>

## University Council

The University Council is the highest collegial body of the University. It is responsible for defining the University's development policies, supervising the implementation of the policies, and promoting connections between the University and the community.

### Chair

LAM Kam Seng Peter 林金城

### First Vice Chair

KOU Kam Fai 高錦輝

### Second Vice Chair

HUEN Wing Ming Patrick 禰永明

### Treasurer

LAU Veng Lin 劉永年

### External Members appointed by the Chief Executive

LAM Kam Seng Peter 林金城

KOU Kam Fai 高錦輝

HUEN Wing Ming Patrick 禰永明

LAU Veng Lin 劉永年

KONG Chio Fai 江朝暉

LI Xiaojia Charles 李小加

TOU Kei San 杜琪新

Anabela Fátima Xavier Sales RITCHIE 林綺濤

António José de FREITAS 飛安達

MA Chi Ngai Frederico 馬志毅

CHUI Sai Peng 崔世平

Eddie WONG Yue Kai 黃如楷

VONG Hin Fai 黃顯輝

SIO Chi Wai 蕭志偉

### Representative of the Secretary for Social Affairs and Culture

LIN Yuan 林媛

### Director of the Education and Youth Development Bureau

KONG Chi Meng 龔志明

### Director of the Financial Services Bureau

IONG Kong Leong 容光亮

### Internal University Council Members

Rector

Vice Rector (Academic Affairs)

Vice Rector (Global Affairs)

Vice Rector (Research)

Vice Rector (Student Affairs)

Vice Rector (Administration)

Two Deans of Faculties, from among all Deans of Faculties by rotation

Two Senate members, elected in a full session of the Senate

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President of the Executive Committee of the University of Macau Alumni Association  
Director General of the Board of Directors of the University of Macau Students' Union

**Secretary-General**

LEUNG Kai Chun Chris 梁佳俊

Please refer to the link below for the most updated member lists of UC and UC committees :  
<https://uc.um.edu.mo/membership/>  
<https://uc.um.edu.mo/uc-committees/>

# The Senate and its Sub-Committees

(For academic year 2024/2025\* )

## The Senate

The Senate is the supreme body responsible for academic affairs of the University and guides the University in its teaching and research activities. It plays a leading role in the University's pursuits of teaching and research activities and ensures high academic standards and rigour.

### Chair

Prof. Yonghua SONG 宋永華教授, Rector

### Members

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

Prof. Rui Paulo da Silva MARTINS 馬許願教授, Vice Rector (Global Affairs)

Prof. Wei GE 葛偉教授, Vice Rector (Research)

Prof. Kai Meng MOK 莫啓明教授, Vice Rector (Student Affairs)

Dr Claudia Jian XU 徐建博士, Vice Rector (Administration)

Prof. Jie XU 徐杰教授, Dean of Faculty of Arts and Humanities

Prof. Jun YU 余俊教授, Dean of Faculty of Business Administration

Prof. Lianghuo FAN 范良火教授, Dean of Faculty of Education

Prof. Chuxia DENG 鄧初夏教授, Dean of Faculty of Health Sciences

Prof. Io Cheng TONG 唐曉晴教授, Dean of Faculty of Law

Prof. Cheng-Zhong XU 須成忠教授, Dean of Faculty of Science and Technology

Prof. Richard Weixing HU 胡偉星教授, Dean of Faculty of Social Sciences

Prof. Pak Kin WONG 王百鍵教授, Dean of Graduate School

Prof. Rose Neng LAI 黎寧教授, Dean of Honours College

Prof. Cheng-Zhong XU 須成忠教授, Interim Director of Institute of Collaborative Innovation

Prof. Xin CHEN 陳新教授, Director of Institute of Chinese Medical Sciences

Prof. Matthew Ting Chi LIU 劉丁己教授, Director of Centre for Continuing Education

Prof. Wei GE 葛偉教授, Interim Director of Institute of Applied Physics and Materials Engineering

Prof. Rui Paulo da Silva MARTINS 馬許願教授, Director of Institute of Microelectronics

Prof. Xingzhong YU 於興中教授, Director of Institute of Advanced Studies in Humanities and Social Sciences

Prof. Rico Long Wai LAM 林朗為教授, Registrar

Prof. Hong XU 徐鴻教授, University Librarian

Ms Carol Kei WONG 汪淇女士, Director of Rector's Office

Prof. Katrine Ka Ki WONG 王嘉祺教授, Director of Centre for Teaching and Learning Enhancement

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

Prof. Ellen Ying ZHANG 張穎教授, Faculty of Arts and Humanities

Prof. Lampo LEONG 梁藍波教授, Faculty of Arts and Humanities

Prof. Nicholas Michael PARKER-GROOM, Faculty of Arts and Humanities

Prof. Jian ZHANG 張健教授, Faculty of Arts and Humanities

Prof. Glen TIMMERMANS, Faculty of Arts and Humanities

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Prof. Yue ZHANG 張月教授, Faculty of Arts and Humanities  
Prof. Jingwei ZHANG 張璟瑋教授, Faculty of Arts and Humanities  
Ms Sumiko ITO, Faculty of Arts and Humanities  
Prof. Degui LI 李德櫃教授, Faculty of Business Administration  
Prof. Raymond Chi Ho LOI 雷智豪教授, Faculty of Business Administration  
Prof. Li MIAO 苗莉教授, Faculty of Business Administration  
Prof. Wenyang ZHANG 張文揚教授, Faculty of Business Administration  
Prof. Fangyuan CHEN 陳方圓教授, Faculty of Business Administration  
Prof. Lucy Xiaowan LIN 林曉婉教授, Faculty of Business Administration  
Prof. Jing XIE 謝靜教授, Faculty of Business Administration  
Prof. Yi DING 丁一教授, Faculty of Business Administration  
Prof. Endong YANG 楊恩東教授, Faculty of Business Administration  
Ms Theresa Van Kam TCHIANG 鄭蘊琴女士, Faculty of Business Administration  
Prof. Xiufeng LIU 柳秀峰教授, Faculty of Education  
Prof. Ming Ming ZHOU 周明明教授, Faculty of Education  
Prof. George Chun Wai CHENG 鄭振偉教授, Faculty of Education  
Prof. Zhaowei KONG 孔兆偉教授, Faculty of Education  
Prof. Frank Yang GONG 龔陽教授, Faculty of Education  
Mr Frankie U Kei WONG 黃宇棋先生, Faculty of Education  
Prof. Edwin Chong Wing CHEUNG 張仲榮教授, Faculty of Health Sciences  
Prof. Wenhua ZHENG 鄭文華教授, Faculty of Health Sciences  
Prof. Leo Tsz On LEE 李子安教授, Faculty of Health Sciences  
Prof. Xiaofan DING 丁肖凡教授, Faculty of Health Sciences  
Dr Li WANG 王麗博士, Faculty of Health Sciences  
Prof. Chaoyang JIANG 蔣朝陽教授, Faculty of Law  
Prof. Paulo Jorge TAVARES CANELAS DE CASTRO, Faculty of Law  
Prof. Yilin WANG 王藝琳教授, Faculty of Law  
Dr Heng Man HO 何慶文博士, Faculty of Law  
Prof. Carlos Jorge Ferreira SILVESTRE, Faculty of Science and Technology  
Prof. Ken Kam Weng TAM 譚錦榮教授, Faculty of Science and Technology  
Prof. Wanhuan ZHOU 周萬歡教授, Faculty of Science and Technology  
Prof. Lei ZHU 祝雷教授, Faculty of Science and Technology  
Prof. Kun Pang KOU 高冠鵬教授, Faculty of Science and Technology  
Prof. Chi Chiu LAM 林智超教授, Faculty of Science and Technology  
Prof. Valentino Anok Melo CRISTINO, Faculty of Science and Technology  
Prof. Shu KONG 孔庶教授, Faculty of Science and Technology  
Mr Miguel Junior GOMES DA COSTA, Faculty of Science and Technology  
Prof. Tianji CAI 蔡天驥教授, Faculty of Social Sciences  
Prof. Richard FITZGERALD, Faculty of Social Sciences  
Prof. Tien Tsung LEE 李天宗教授, Faculty of Social Sciences  
Prof. Francisco José BERNARDINO DA SILVA LEANDRO, Faculty of Social Sciences  
Prof. Haiyan WANG 王海燕教授, Faculty of Social Sciences  
Prof. Letty Yan Yee KWAN 關欣儀教授, Faculty of Social Sciences  
Prof. Hoipan WONG 王海濱教授, Faculty of Social Sciences  
Mr Raymond Fei Loi LAI 黎飛雷先生, Faculty of Social Sciences

Mr Seng Hang PUN 潘星行先生, Student representative of UM Students' Union  
Ms Yulin CHEN 陳裕林女士, Student representative of UM Postgraduate Association

### **Secretary**

Prof. Rico Long Wai LAM 林朗為教授, Registrar

The Standing Committees of the Senate include:

1. General Affairs Committee
2. Research Committee
3. Academic Quality Assurance Committee
4. Library Committee
5. Information and Education Technology Committee
6. Graduate Studies Committee
7. General Education Committee
8. Committee on Teaching and Learning Enhancement
9. Scholarship Committee
10. Sports Committee
11. Staff-Student Consultative Committee
12. Student Disciplinary Committee

## 1. General Affairs Committee

The General Affairs Committee handles admission and academic affairs, advises the Senate on the creation and revision of programmes, courses and academic regulations and provides preparatory work for the Senate meetings.

### Composition

#### **Chair**

Prof. Yonghua SONG 宋永華教授, Rector

#### **Members**

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

Prof. Rui Paulo da Silva MARTINS 馬許願教授, Vice Rector (Global Affairs)

Prof. Wei GE 葛偉教授, Vice Rector (Research)

Prof. Kai Meng MOK 莫啓明教授, Vice Rector (Student Affairs)

Prof. Jie XU 徐杰教授, Dean of Faculty of Arts and Humanities

Prof. Jun YU 余俊教授, Dean of Faculty of Business Administration

Prof. Lianghuo FAN 范良火教授, Dean of Faculty of Education

Prof. Chuxia DENG 鄧初夏教授, Dean of Faculty of Health Sciences

Prof. Io Cheng TONG 唐曉晴教授, Dean of Faculty of Law

Prof. Cheng-Zhong XU 須成忠教授, Dean of Faculty of Science and Technology

Prof. Richard Weixing HU 胡偉星教授, Dean of Faculty of Social Sciences

Prof. Pak Kin WONG 王百鍵教授, Dean of Graduate School

Prof. Rose Neng LAI 黎寧教授, Dean of Honours College

Prof. Xin CHEN 陳新教授, Director of Institute of Chinese Medical Sciences

Prof. Hui PAN 潘暉教授, Representative of Institute of Applied Physics and Materials Engineering

Prof. Pui In MAK 麥沛然教授, Representative of Institute of Microelectronics

Prof. Rico Long Wai LAM 林朗為教授, Registrar

Ms Carol Kei WONG 汪淇女士, Director of Rector's Office

Prof. Xingzhong YU 於興中教授, Interim Director of Institute of Advanced Studies in Humanities and Social Sciences

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## 2. Research Committee

The Research Committee plans, promotes and governs research activities of the University. It also approves research project funding and assists in managing external research funding.

### Composition

#### **Chair**

Prof. Wei GE 葛偉教授, Vice Rector (Research)

#### **Members**

Prof. Defeng LI 李德鳳教授, Associate Dean of Faculty of Arts and Humanities  
Prof. Degui LI 李德樞教授, Associate Dean of Faculty of Business Administration  
Prof. Mingming ZHOU 周明明教授, Associate Dean of Faculty of Education  
Prof. Renhe XU 徐仁和教授, Associate Dean of Faculty of Health Sciences  
Prof. Dan WEI 魏丹教授, Associate Dean of Faculty of Law  
Prof. Xiao-Chuan CAI 蔡小川教授, Associate Dean of Faculty of Science and Technology  
Prof. Richard FITZGERALD, Associate Dean of Faculty of Social Sciences

Prof. Pak Kin WONG 王百鍵教授, Dean of Graduate School  
Prof. Cheng-Zhong XU 須成忠教授, Interim Director of Institute of Collaborative Innovation  
Prof. Xin CHEN 陳新教授, Director of Institute of Chinese Medical Sciences  
Prof. Sai Weng SIN 冼世榮教授, Representative of the State Key Laboratory of Analog and Mixed-Signal VLSI  
Prof. Peng LI 李鵬教授, Director of the State Key Laboratory of Quality Research in Chinese Medicine  
Prof. Handong SUN 孫漢東教授, Representative of Institute of Applied Physics and Materials Engineering  
Prof. Yonghua SONG 宋永華教授, Director of the State Key Laboratory of Internet of Things for Smart City  
Prof. Man Kay LAW 羅文基教授, Representative of Institute of Microelectronics

Prof. Ellen Ying ZHANG 張穎教授, Faculty of Arts and Humanities  
Prof. Wenyang ZHANG 張文揚教授, Faculty of Business Administration  
Prof. Xiufeng LIU 柳秀峰教授, Faculty of Education  
Prof. Wenhua ZHENG 鄭文華教授, Faculty of Health Sciences  
Prof. Yilin WANG 王藝琳教授, Faculty of Law  
Prof. Kun Pang KOU 高冠鵬教授, Faculty of Science and Technology  
Prof. Tianji CAI 蔡天驥教授, Faculty of Social Sciences

## 3. Academic Quality Assurance Committee

The Academic Quality Assurance Committee arranges for prior academic assessment of new programmes and courses and periodic academic review of existing ones and manages to evaluate and improve the teaching quality, standard and performance of each teaching unit.

### Composition

#### **Chair**

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

#### **Members**

Prof. Jie XU 徐杰教授, Dean of Faculty of Arts and Humanities



Prof. Jun YU 余俊教授, Dean of Faculty of Business Administration  
 Prof. Lianghuo FAN 范良火教授, Dean of Faculty of Education  
 Prof. Chuxia DENG 鄧初夏教授, Dean of Faculty of Health Sciences  
 Prof. Io Cheng TONG 唐曉晴教授, Dean of Faculty of Law  
 Prof. Cheng-Zhong XU 須成忠教授, Dean of Faculty of Science and Technology  
 Prof. Richard Weixing HU 胡偉星教授, Dean of Faculty of Social Sciences

Prof. Yue ZHANG 張月教授, Faculty of Arts and Humanities  
 Prof. Jing XIE 謝靜教授, Faculty of Business Administration  
 Prof. Ming Ming ZHOU 周明明教授, Faculty of Education  
 Prof. Leo Tsz On LEE 李子安教授, Faculty of Health Sciences  
 Prof. Chaoyang JIANG 蔣朝陽教授, Faculty of Law  
 Prof. Kun Pang KOU 高冠鵬教授, Faculty of Science and Technology  
 Prof. Tianji CAI 蔡天驥教授, Faculty of Social Sciences

Prof. Hui PAN 潘暉教授, Representative of Institute of Applied Physics and Materials Engineering  
 Prof. Xin CHEN 陳新教授, Director of Institute of Chinese Medical Sciences  
 Prof. Rose Neng LAI 黎寧教授, Dean of Honours College  
 Prof. Matthew Ting-Chi LIU 劉丁己教授, Director of Centre for Continuing Education  
 Prof. Katrine Ka Ki WONG 王嘉祺教授, Director of Centre for Teaching and Learning Enhancement  
 Prof. Cheng-Zhong XU 須成忠教授, Interim Director of Institute of Collaborative Innovation  
 Prof. Pui In MAK 麥沛然教授, Representative of Institute of Microelectronics  
 Prof. Rico Long Wai LAM 林朗為教授, Registrar  
 Prof. Pak Kin WONG 王百鍵教授, Dean of Graduate School  
 Dr Joey Chi Ngai LAO 柳智毅博士, Director of Strategy and Planning Office

Mr Seng Hang PUN 潘星行先生, Student representative of UM Students' Union  
 Ms Yulin CHEN 陳裕林女士, Student representative of UM Postgraduate Association

#### 4. Library Committee

The Library Committee sets development and improvement plans for the Library and ensures that the resources the Library acquires in each academic year meet the needs of teaching and research of various academic units of the University.

##### Composition

##### **Chair**

Prof. George Chun Wai CHENG 鄭振偉教授, Faculty of Education

##### **Members**

Prof. Hong XU 徐鴻教授, University Librarian

Prof. Glen TIMMERMANS, Faculty of Arts and Humanities  
 Prof. Endong YANG 楊恩東教授, Faculty of Business Administration  
 Prof. Yan WANG 王燕教授, Faculty of Education  
 Prof. Xiaofan DING 丁肖凡教授, Faculty of Health Sciences  
 Prof. Xiaobo ZHAI 翟小波教授, Faculty of Law  
 Prof. Seak Weng VONG 黃錫榮教授, Faculty of Science and Technology

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Prof. Ka Ian LAM 林嘉欣教授, Faculty of Social Sciences  
Prof. Xiaowen MAO 毛曉雯教授, Institute of Chinese Medical Sciences  
Prof. Hou IAN 殷灝教授, Institute of Applied Physics and Materials Engineering  
Prof. Yan ZHU 諸媽教授, Institute of Microelectronics

Mr Zijian CHEN 陳子健先生, Student representative of UM Students' Union  
Ms Honggui XU 徐洪歸女士, Student representative of UM Postgraduate Association

## **5. Information and Education Technology Committee**

The Information and Education Technology Committee sets the University's policy and regulations for the use of information and education technology in academic and administrative work. It evaluates and introduces new technologies and facilities, in order to enhance the efficiency of teaching, research and learning.

### Composition

#### **Chair**

Prof. Kun Pang KOU 高冠鵬教授, Faculty of Science and Technology

#### **Members**

Mr Antony SI TOU 司徒璊璠先生, Director of Information and Communication Technology Office

Prof. Roberval TEIXEIRA E SILVA, Faculty of Arts and Humanities  
Prof. Kraivin CHINTAKANANDA, Faculty of Business Administration  
Prof. Andy Chun Wai FAN 范進偉教授, Faculty of Education  
Prof. Ningyi SHAO 邵寧一教授, Faculty of Health Sciences  
Prof. Muruga Perumal RAMASWAMY 白祿孟教授, Faculty of Law  
Prof. Leong Hou U 余亮豪教授, Faculty of Science and Technology  
Mr Raymond Fei Loi LAI 黎飛雷先生, Faculty of Social Sciences

Prof. Defang OUYANG 歐陽德方教授, Institute of Chinese Medical Sciences  
Prof. Hui PAN 潘暉教授, Institute of Applied Physics and Materials Engineering  
Prof. Chi Seng LAM 林智聲教授, Institute of Microelectronics  
Dr Christopher Allen FULTON, Centre for Teaching and Learning Enhancement  
Ms Stephanie Sao Lai IO 姚秀麗女士, Student Affairs Office

Mr U Fai TAM 譚宇暉先生, Student representative of UM Students' Union  
Ms Kaiyuan WEI 韋開元女士, Student representative of UM Postgraduate Association

## **6. Graduate Studies Committee**

The Graduate Studies Committee examines and governs the development plans on postgraduate study programmes and research projects. It also handles admission and academic affairs relating to postgraduate programmes.

### Composition

#### **Chair**

Prof. Yonghua SONG 宋永華教授, Rector

## Members

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)  
 Prof. Rui Paulo da Silva MARTINS 馬許願教授, Vice Rector (Global Affairs)  
 Prof. Wei GE 葛偉教授, Vice Rector (Research)  
 Prof. Pak Kin WONG 王百鍵教授, Dean of Graduate School

Prof. Defeng LI 李德鳳教授, Associate Dean of Faculty of Arts and Humanities  
 Prof. Degui LI 李德櫃教授, Associate Dean of Faculty of Business Administration  
 Prof. Mingming ZHOU 周明明教授, Associate Dean of Faculty of Education  
 Prof. Hanming SHEN 沈漢明教授, Associate Dean of Faculty of Health Sciences  
 Prof. Dan WEI 魏丹教授, Associate Dean of Faculty of Law  
 Prof. Xiao-Chuan CAI 蔡小川教授, Associate Dean of Faculty of Science and Technology  
 Prof. Tianji CAI 蔡天驥教授, Associate Dean of Faculty of Social Sciences

Prof. Jeremy DE CHAVEZ, Faculty of Arts and Humanities  
 Prof. Lucy Xiaowan LIN 林曉婉教授, Faculty of Business Administration  
 Prof. Xiufeng LIU 柳秀峰教授, Faculty of Education  
 Prof. Tzu-Ming LIU 劉子銘教授, Faculty of Health Sciences  
 Prof. Xiaobo ZHAI 翟小波教授, Faculty of Law  
 Prof. Hannah Wanhuan ZHOU 周萬歡教授, Faculty of Science and Technology  
 Prof. Richard DENNIS FITZGERALD, Faculty of Social Sciences

Prof. Maggie Pui Man HOI 許貝文教授, Institute of Chinese Medical Sciences  
 Prof. Handong SUN 孫漢東教授, Institute of Applied Physics and Materials Engineering  
 Prof. Sai Weng SIN 冼世榮教授, Institute of Microelectronics

Prof. Katrine Ka Ki WONG 王嘉祺教授, Director of Centre for Teaching and Learning Enhancement  
 Prof. Rico Long Wai LAM 林朗為教授, Registrar  
 Ms Carol Kei WONG 汪淇女士, Director of Rector's Office

Ms Yulin CHEN 陳裕林女士, Student representative of UM Postgraduate Association

## 7. General Education Committee

The General Education Committee develops policies and objectives of general education curriculum, to assess the general education courses and to keep the curriculum under regular review. It also handles other related affairs at the request of the Senate and advises on the annual budget in support of its own areas of work.

### Composition

#### Chair

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

#### Members

Prof. Kai Meng MOK 莫啓明教授, Vice Rector (Student Affairs)

Prof. Hans-Georg MOELLER, Faculty of Arts and Humanities  
 Prof. Morris Ming LIU 劉明教授, Faculty of Business Administration  
 Prof. Zhaowei KONG 孔兆偉教授, Faculty of Education  
 Prof. Gary WONG 黃值富教授, Faculty of Health Sciences

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Ms Yiwa JIANG 蔣依娃女士, Faculty of Law

Prof. Yibo Bob ZHANG 張一博教授, Faculty of Science and Technology

Prof. Hongyu WANG 王紅宇教授, Faculty of Social Sciences

Prof. Victoria Lai Cheng LEI 李麗青教授, Honours College

Prof. Jiahong LU 路嘉宏教授, Institute of Chinese Medical Sciences

Prof. Billy Kar Wei NG 吳嘉偉教授, Institute of Applied Physics and Materials Engineering

Prof. Chi Hang CHAN 陳知行教授, Institute of Microelectronics

Prof. Katrine Ka Ki WONG 王嘉祺教授, Director of Centre for Teaching and Learning Enhancement

Prof. Rico Long Wai LAM 林朗為教授, Registrar

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

Mr Seng Hang PUN 潘星行先生, Student representative of UM Students' Union

## **8. Committee on Teaching and Learning Enhancement**

The Committee on Teaching and Learning Enhancement assists the Centre for Teaching and Learning Enhancement to pursue standard of teaching and learning excellence. It endorses the funding of projects and educational programmes related to teaching and learning enhancement. It also submits strategic proposals to the Senate, and advises on the annual budget in support of its own areas of work.

### Composition

#### **Chair**

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

#### **Members**

Prof. Ricardo MOUTINHO, Faculty of Arts and Humanities

Prof. Rachel Xiaorong MA 馬笑蓉教授, Faculty of Business Administration

Prof. Bobby Ho-Hong CHING 程浩航教授, Faculty of Education

Prof. Wakam CHANG 曾華鑫教授, Faculty of Health Sciences

Prof. Rostam NEUWIRTH, Faculty of Law

Prof. Che Man CHENG 鄭智文教授, Faculty of Science and Technology

Prof. Angela Wen-Yu CHANG 張文瑜教授, Faculty of Social Sciences

Prof. Benjamin Kidder HODGES, Honours College

Prof. Maggie Pui Man HOI 許貝文教授, Institute of Chinese Medical Sciences

Prof. Guichuan XING 邢貴川教授, Institute of Applied Physics and Materials Engineering

Prof. Mingqiang GUO 郭銘強教授, Institute of Microelectronics

Ms Alice Chong Kok FONG 馮鍾珏女士, Graduate School

Ms Betty Wai Hong CHANG 曾偉紅女士, Academic Affairs Office

Prof. Katrine Ka Ki WONG 王嘉祺教授, Director of Centre for Teaching and Learning Enhancement

Dr Elvo Kuai Long SOU 蘇桂龍博士, Student Affairs Office

Mr Seng Hang PUN 潘星行先生, Student representative of UM Students' Union

Ms Yulin CHEN 陳裕林女士, Student representative of UM Postgraduate Association

## 9. Scholarship Committee

The Scholarship Committee advises and gives approval in respect of matters pertaining to scholarships and academic prizes.

### Composition

#### **Chair**

Prof. Rico Long Wai LAM 林朗為教授, Registrar

#### **Members**

Prof. Io Kei KUONG 鄺耀基教授, Faculty of Arts and Humanities

Prof. Steven Xu ZHANG 張旭教授, Faculty of Business Administration

Prof. Dennis Ping-Cheng WANG 王秉正教授, Faculty of Education

Prof. Edwin Chong Wing CHEUNG 張仲榮教授, Faculty of Health Sciences

Dr Cheng Hang LEONG 梁靜嫻博士, Faculty of Law

Prof. Seng Peng MOK 莫昇萍教授, Faculty of Science and Technology

Prof. Yibai YANG 楊毅柏教授, Faculty of Social Sciences

Prof. Emily Ying WANG 王穎教授, Institute of Chinese Medical Sciences

Prof. Hui PAN 潘暉教授, Institute of Applied Physics and Materials Engineering

Prof. Yanwei JIA 賈艷偉教授, Institute of Microelectronics

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

Ms Eduarda Ka Vai VU 鄺嘉慧女士, Head of Registry

## 10. Sports Committee

The Sports Committee advises on policy making and strategic planning for sports development in the UM; ensures effective use and proper management of sports resources and facilities, encourages the development of organizational sports activities and active participation of members from the UM community.

### Composition

#### **Chair**

Prof. Shing On LEUNG 梁成安教授, Faculty of Education

#### **Members**

Mr Ivan Weng Hong LEI 李永康先生, Residential College – LCWC

Prof. Siu Ming CHOI 蔡紹明教授, Faculty of Education

Ms Dorothy Ching Ying SZE 施靜瑩女士, Office of Administration

Mr Ka Ip LEONG 梁嘉業先生, Campus Management and Development Office

Ms Phoebe Sau Kun CHEANG 鄭秀娟女士, Office of Health, Safety and Environmental Affairs

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

Ms Grace Kwai Chee CHAU 周桂慈女士, Office of Sports Affairs

Ms Celia Sok Man LEI 李淑敏女士, Campus Services Section

Dr Water WONG 黃水波博士, UM Staff Sports Club

Mr Chi Lok CHOU 曹梓樂先生, Student representative of UM Students' Union

Ms Jiaxuan LIU 劉嘉璇女士, Student representative of UM Postgraduate Association

Ms Hui Li SEAK 石慧莉女士, President of Sports Association of UM Students' Union

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## 11. Staff-Student Consultative Committee

The Committee aims to provide a forum for academic matters which may be raised by the members and to increase communication between students and the University on both academic matters and non-academic matters.

### Composition

#### **Chair**

Prof. Katrine Ka Ki WONG 王嘉祺教授, Faculty of Arts and Humanities

#### **Members**

Prof. Victoria Lai Cheng LEI 李麗青教授, Faculty of Arts and Humanities

Prof. Hao ZHANG 張皓教授, Faculty of Business Administration

Prof. Lijia LIN 林立甲教授, Faculty of Education

Prof. Leo Tsz On LEE 李子安教授, Faculty of Health Sciences

Dr Chio Keong CHIN 錢釗強博士, Faculty of Law

Prof. Angus Chi Chiu LAM 林智超教授, Faculty of Science and Technology

Prof. Yibai YANG 楊毅柏教授, Faculty of Social Sciences

Prof. Duncan Chung Hang LEUNG 梁重恒教授, Institute of Chinese Medical Sciences

Prof. Huaiyu SHAO 邵懷宇教授, Institute of Applied Physics and Materials Engineering

Prof. Sio Hang PUN 潘少恆教授, Institute of Microelectronics

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

Ms Pui I HO 何培儀女士, Student representative of UM Students' Union

Mr Kun FANG 房堃先生, Student representative of UM Postgraduate Association

Ms Xinjie LYU 呂欣潔女士, President of Faculty of Arts and Humanities Students' Association

Ms Si Cheng CHEONG 張思澄女士, President of Faculty of Business Administration Students' Association

Ms Ka I LAM 林嘉怡女士, President of Faculty of Education Students' Association

Ms Songhan YANG 楊淞涵女士, President of Faculty of Health Sciences Students' Association

Mr Sam Meng CHONG 鍾森明先生, President of Faculty of Law Students' Association

Ms Hio Wa WONG 王曉樺女士, President of Faculty of Science and Technology Students' Association

Ms Kam Pui CHEONG 張錦佩女士, President of Faculty of Social Sciences Students' Association

Ms Zhouyixin ZHANG 張周逸馨女士, Student representative of Institute of Chinese Medical Sciences

Ms Yuwei LI 李雨薇女士, Student representative of Institute of Applied Physics and Materials Engineering

Mr Chon Fai LEE 李俊輝先生, Student representative of Institute of Microelectronics

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## 12. Student Disciplinary Committee

The Student Disciplinary Committee advises and makes recommendations on student disciplinary matters of the University. It reviews and conducts hearings on alleged infractions and acts with power to decide appropriate response and penalties.

### Composition

#### **Chair**

Mr Paul Chap Chong PANG 彭執中先生, Dean of Students

#### **Members**

Prof. Rico Long Wai LAM 林朗為教授, Registrar

Prof. Guokai CHEN 陳國凱教授, Faculty of Health Sciences

Prof. Zhe LI 李哲教授, Faculty of Law

Mr Antony SI TOU 司徒瓊璠先生, Director of Information and Communication Technology Office

Ms Pui I HO 何培儀女士, Student representative of UM Students' Union

Ms Zheyu ZHONG 鍾哲瑜女士, Student representative of UM Postgraduate Association

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# Finance Management Committee

The Finance Management Committee is the executive body responsible for financial affairs of the University.

## Composition

### **Chair**

Prof. Yonghua SONG 宋永華教授, Rector

### **Members**

Prof. Michael King Man HUI 許敬文教授, Vice Rector (Academic Affairs)

Prof. Rui Paulo da Silva MARTINS 馬許願教授, Vice Rector (Global Affairs)

Prof. Wei GE 葛偉教授, Vice Rector (Research)

Prof. Kai Meng MOK 莫啓明教授, Vice Rector (Student Affairs)

Dr Claudia Jian XU 徐建博士, Vice Rector (Administration)

### **Secretary**

Ms Miu Mei LEI, Candy 李妙媚女士, Director of Finance Office

\* Last updated in June 2025.

Please refer to the link below for the most updated member lists of Senate and its sub-committees.

<https://aao.um.edu.mo/the-um-senate/>



# **Academic Dress for Graduates**

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# Academic Dress for Graduates

## Specifications of the Graduation Gown

### Doctoral Degrees

#### Doctor of Philosophy

##### Gowns

- round sleeves in blue
- blue silk piping in front
- front pleats, hook and eye closure
- back yoke cord and button
- 9 cm hem
- in red color

**Hoods** - red hood with blue silk hem

**Caps** - round cap in black color with gold tassel

#### Professional Doctorates

##### Gowns

- round sleeves in purple
- purple silk piping in front
- front pleats, hook and eye closure
- back yoke cord and button
- 9 cm hem
- in red color

**Hoods** - red hood with purple silk hem

**Caps** - round cap in black color with gold tassel

### Master's Degrees

##### Gowns

- sleeves with arm slits closed
- front pleats, hook and eye closure
- back yoke cord and button
- 8.5 cm hem
- in black color

**Caps** - square cap in black color with black tassel

**Hoods** - black hood with 1 cm gold silk hem and color silk hem ranging from 4.5 to 7 cm, progressively wider towards the odd-shaped flap at the back of the hood

**Faculty of Arts and Humanities** - purple silk hem

**Faculty of Business Administration** - silver silk hem

**Faculty of Education** - blue silk hem

**Faculty of Health Sciences** - bitter lemon silk hem

**Faculty of Law** - red silk hem

**Faculty of Science and Technology** - orange silk hem

**Faculty of Social Sciences** - green silk hem

**Institute of Applied Physics and Materials Engineering** – navy blue silk hem

**Institute of Chinese Medical Sciences** - yellow silk hem

**Institute of Collaborative Innovation** - kelly green silk hem

**Institute of Microelectronics** - cobalt blue silk hem

## Bachelor's Degrees

### Gowns

- round sleeves
- front pleats, hook and eye closure
- 6 cm hem
- in black color

**Caps** - square cap in black color with black tassel

**Hoods** - black hood with color silk hem ranging from 4 to 4.5 cm, progressively wider towards the odd-shaped flap at the back of the hood

**Faculty of Arts and Humanities** - purple silk hem

**Faculty of Business Administration** - silver silk hem

**Faculty of Education** - blue silk hem

**Faculty of Health Sciences** - bitter lemon silk hem

**Faculty of Law** - red silk hem

**Faculty of Science and Technology** - orange silk hem

**Faculty of Social Sciences** - green silk hem

### Honours College

**Stole** – purple with 1 cm gold silk hem, embroidered with UM and HC logos

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# Admission Rules

## ADMISSION RULES

**PhD and Other Doctoral Degree Programmes**

(Approved by the Rector on 22 January 2024)

**1. ADMISSION REQUIREMENTS****1.1 General Entry (for Master's Degree Holders)**

Possess a Master's degree or academic background recognized as equivalent by the University of Macau.

**1.2 Accelerated Entry (for Master's Students)**

Have been registered in a Master's Programme at the University of Macau for at least one year.

Have successfully finished the coursework part with outstanding performance and have demonstrated strong research ability.

**1.3 Direct Entry (for Bachelor's Degree Holders)**

Possess a Bachelor's degree with outstanding performance and have demonstrated strong research ability.

**1.4 Proof of English Proficiency**

Applicants who received their Bachelor/Master's degree from a university where the medium of instruction was not English are required to provide any of the following as proof of English proficiency:

- Obtained a TOEFL\* score of 550 (paper-based examination)/80 (Internet-based examination) or above or,
- An IELTS\* overall score of 6.0 or above with no sub-score lower than 5.5 or,
- College English Test (CET) score is acceptable to some academic units, please visit corresponding website of each academic unit for details.

\*Note: TOEFL and IELTS scores are valid for two years from the test date.

For exceptional cases, admission should be endorsed by the Dean/Director of the academic unit concerned and be approved by the Graduate School.

Note:

Some programmes may have additional admission requirements. Please visit the corresponding website <https://grs.um.edu.mo/> for more details.

**2. APPLICATION PROCEDURES**

Online application forms will be available during the application period. Applicants should submit their application via the Online Application System of the University at <https://grs.um.edu.mo/>. The University will only accept application via the Online Application System.

**2.1 Read carefully the important notes before you proceed with your application.****2.2 You must have an e-mail address to register as a new user in order to submit an application. Applicants who have successfully registered will receive a reference number (e.g. 2XXXXXXX) and password by e-mail. You must keep such information to login to your account throughout the whole application procedure. (If you fail to**

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receive the e-mail within 2 days, please contact us by phone at 8822 4898 or by e-mail at [gradschool@um.edu.mo](mailto:gradschool@um.edu.mo). )

- 2.3 Complete all relevant sections of the Online Application. It is recommended that you supply a local mobile number so that the University may notify applicants of any news by e-mail and SMS.
- 2.4 Scan and upload all required documents to the Online Application System. All submitted documents must be in A4 size, PDF format and the total size for all attached documents should NOT be greater than 6MB.

The documents should include:

2.4.1 Identification card copy.

2.4.2 Personal curriculum vitae.

2.4.3 Passport size photo (in JPG format with 300dpi, with no border and white background).

2.4.4 Certificates and academic transcripts:

2.4.4.1 General Entry (for Master's Degree Holders): each of the certificate and academic transcript of both the Bachelor's degree and Master's degree

2.4.4.2 Accelerated Entry (for Master's Students): Bachelor's degree certificate and academic transcript, Master's academic transcript in University of Macau

2.4.4.3 Direct Entry (for Bachelor's Degree Holders): Bachelor's degree certificate and academic transcript.

2.4.5 Non-UM current students must submit a testimonial which must be issued in not more than 60 days prior to the submission of the application for the PhD and other doctoral degree Programme.

2.4.6 Applicants currently studying in the final year of a Master's degree programme at the University of Macau do not need to submit the Master's degree transcript and testimonial.

2.4.7 Recommendation Forms. Applicants must use the recommendation forms provided by the Graduate School. Each application must contain two completed recommendation forms. At least one of the two recommendation forms must be completed by a university academic. The other one can be completed by either a university academic or an employer. Applicants can submit them either online or by post. However, to avoid possible postal delay, online recommendations are recommended.

2.4.7.1 If you prefer to submit online recommendations, you must make sure your referees submit your recommendations to us before the application deadline. An automatic notification e-mail will be sent to the applicant once we receive the recommendations. If applicants do not receive this e-mail, it means your referee has not submitted the online recommendation for you yet. You should contact your referee as soon as possible to make sure that it is submitted by the application deadline.

2.4.7.2 If you choose to submit by post, the forms should be sealed in an envelope by your referee and forwarded/sent to the Graduate School directly. Please write on the envelope your application number YP-CX-XXXX-X or reference number 2XXXXXXX before sending the recommendation form to us.

- 2.4.8 A statement addressing the area or topic of the applicant's interest in pursuing PhD and other doctoral studies. The statement must be of no more than 15 pages or of size less than 1 MB.
- 2.4.9 Proof of English proficiency (Please refer to Item 1.4 under Admission Requirements for details).
- 2.4.10 Applicants who received their Bachelor/Master's degree from a university where the medium of instruction was English are required to provide a proof of English as the medium of instruction, if deemed necessary, issued by the applicants' university where their Bachelor/Master's degree was obtained (UM's current students and graduates are not required to provide such proof).
- 2.4.11 Other documents as requested by the programme for which the candidate is applying (if applicable).
- 2.4.12 Application without the above mentioned documents enclosed will not be processed.
- 2.4.13 Documents submitted to the University will not be returned to the applicant.
- 2.5 Verify all application data before submitting the application. Once the application is submitted, no data can be changed. Each applicant can submit only one application in the same academic year. If necessary, the applicant can indicate in his/her application a maximum choice of two programmes in one application with priority given to each programme. Although the applicant can apply for two programmes, application fee will be charged once only.
- 2.6 Settle the application fee by the deadline of the application period (For more details, please refer to 2.11).
- 2.7 Once the application fee is settled, an acknowledgment e-mail with an application number (YP-CX-XXXX-X) will be sent to you by e-mail. Applications without an application number will not be regarded as valid. If you do not receive any acknowledgment e-mail, please contact us by e-mail at [gradschool@um.edu.mo](mailto:gradschool@um.edu.mo).
- 2.8 Academic documents (such as recommendation forms, certificates, testimonials, academic transcript, etc.) submitted must be of the same language version as that of the thesis language of the programme being applied. Otherwise, the application will not be considered.
- 2.9 Admission for PhD and other doctoral degree programmes in principle is open all year round. For practical purpose, most students should be admitted in the first semester of the forthcoming academic year. However, if necessary they can also be admitted in the second semester as requested by the academic unit concerned.
- 2.10 Admission results will be released via the Online Application System. Candidates should follow the admission procedures as stipulated in the Online Application System and the offer letter to confirm acceptance. Offered candidates must settle the non-refundable deposit listed on the debit note for payment, the non-refundable deposit will be used to offset part of the tuition fee payable for that academic year. If candidates fail to confirm acceptance and settle the fees within the prescribed period as printed on the offer letter, the offer of admission will be cancelled. All fees paid are non-refundable.
- 2.11 Applicants will be given conditional offer in the following circumstances.
  - 2.11.1 applicants currently studying in the final year of Bachelor's degree programmes

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(Direct Entry) / Master's degree programmes (General Entry) will be conditionally offered and will only be formally admitted upon successful completion of their Bachelor's degree programmes (Direct Entry) / Master's degree programmes (General Entry) with overall result satisfying the admission requirements.

2.11.2 in special cases, applicants are required to submit proof of English proficiency before formally admitted.

2.12 The application fee for each application is MOP200.00. The application fee is non-refundable.

The application fee payments must be made by the deadline of the application period:

2.12.1 by online payment (please follow the payment instructions on the website);

2.12.2 by cheque, bank draft or cashier's order drawn on a bank in Macao and made payable to the "University of Macau". An additional handling charge of MOP50 is required for each foreign bank draft or cashier's order. However, the exact amount of handling fees depends on the amount charged by banks. Our University reserves the right to recover the difference.

(Applicants who choose option 2.11.2 must print the application fee payment slip after they have completed the application at the Online Application System and submit the slip to the Treasury Section at Room 1012, Administration Building for payment.)

### **3. INTERVIEW**

If interviews are required, the academic unit concerned will inform the applicants about the interview details.

### **4. TUITION FEES**

4.1 Please refer to the Tuition Fees Scheme for postgraduate programmes (which is available at GRS webpage: <https://grs.um.edu.mo/>) for further details.

4.2 Tuition Fees are subject to revision annually.

### **5. PHD FUNDING**

The UM PhD Scholarship and UM PhD Teaching Research Assistant are available to PhD students of the University which serve as source of stipend for students. Please refer to the *Guidelines for the UM PhD Scholarship and the UM PhD Teaching Research Assistant* for further details.

### **6. TERMINATION OF APPLICATION OR STUDY**

6.1 Applicants must guarantee that the information given in the application form is TRUE and the UM reserves the right to terminate an application or study at any time if any information given in his/her application form is found later to be untrue, false or incorrect.

6.2 Students must should not enrol/register in any other universities upon registration at the University (except those with Joint Programme Agreements approved by the University). If students are found to be registered for more than one higher education programme, the UM reserves the right to terminate his/her application or study at any time.



## 7. DEFERMENT OF STUDY FOR NEW STUDENTS

- 7.1 New students can apply for deferment of study for not more than one academic year. Application for such deferment should be made before class commencement. New students must fulfil all the conditions stated in their offer letters and submit the required amount of non-refundable deposit before they become eligible to apply for deferment of study. Such applications will only be permitted for medical reasons and exceptional cases with sound justification. For medical reasons, students are required to submit medical certificates issued by hospitals at the time of application. For exceptional cases with sound justification, students are required to specify the reason and submit written certifications at the time of application.
- 7.2 Students who have deferred their studies and wish to return to the University should apply for resumption of study. Resumption is not granted automatically. Besides, new students are not permitted to transfer to another programme when they apply for resumption of study.
- 7.3 If students neither apply for resumption of study nor submit another deferment application before class commencement of the next semester after they have reached the previously approved deferment period, they will be considered having withdrawn from the University, and they have to apply for re-admission of study later if they wish to return to the University.

## 8. PERSONAL IDENTIFICATION

Applicants' identity is subject to the personal identification document held. Applicants must hold valid personal identification documents for admission:

- 8.1 Valid Macao identification card for Macao students;
- 8.2 Valid Hong Kong permanent identification card for Hong Kong students;
- 8.3 Valid Taiwan identification document for Taiwan region students;
- 8.4 Valid Mainland China identification card for Mainland China students;
- 8.5 Valid foreign passport for international students.
- 8.6 Non-local applicants must ensure that their identification documents can fulfil the entry requirements in Macao and they are eligible to apply for "Special Authorization to Stay" (study visa) after arrival. Non-local applicants should take responsibility that their identification documents held must comply with the Law of Macao to apply for "Special Authorization to Stay" for study purpose in Macao. For details, please refer to the Macao Public Security Police Force's website.
- 8.7 The University reserves the right to reject admission of students who hold expired or invalid personal identification documents. Students will be responsible for any consequences that might incur, should they fail to legally stay and study in Macao due to their personal identification reason. For Mainland China identification card or passport holders, please refer to the admission guidelines for PhD and other doctoral degree Programmes for Mainland China applicants at <https://grs.um.edu.mo/>.

## 9. SUBMISSION OF DOCUMENTS

- 9.1 For Application:  
Applicants must scan and upload all required documents to the Online Application System of the University for application. Otherwise, the application will not be

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considered. (For details, please refer to Point 2.4.)

9.2 Upon Offer of Admission:

Upon offer of admission, candidates will be requested to provide certified true copies of their academic documents or to present the originals before/during registration, otherwise, the offer of admission will be cancelled and the candidate will not be eligible for registration. All submitted documents will not be returned.

All documents submitted must be in A4 size. Applicants who fail to provide the required documents for verification or complete registration within specific period will be disqualified from admission and subsequent enrolment in the University.

## **10. SPECIALIZATION**

For details, please refer to Specialization for PhD and other Doctoral Degree Programmes at the Graduate School's website: <https://grs.um.edu.mo/>.

## ADMISSION RULES

# Master's Degree & Postgraduate Certificate/ Diploma Programmes

(Approved by the Rector on 22 January 2024)

## 1. LIST OF MASTER'S DEGREE PROGRAMMES TO BE OFFERED IN 2025/2026

Faculty	Programme Code	Programme	Medium of Instruction	Normal Duration of Study
Faculty of Arts and Humanities	MAHELS	1. Master of Arts in English Studies	English	2 academic years
	PMAHCLN	2. Master of Philosophy in Chinese Linguistics	Chinese	
	PMAHCLT	3. Master of Philosophy in Chinese Literature	Chinese	
	PMAHPISLCS PMAHPISLG	4. Master of Philosophy in Portuguese Language & Intercultural Studies - Literary & Cultural Studies <sup>Ⓢ</sup> - Applied Linguistics <sup>Ⓢ</sup>	Portuguese	
	MAHTRSTEC MAHTRSTPC	5. Master of Arts in Translation Studies - English - Chinese - Portuguese - Chinese <sup>Ⓢ</sup>	Chinese/English  Chinese/ Portuguese	
	PMAHHIT	6. Master of Philosophy in History	English/Chinese	
	MAHCHC	7. Master of Arts in Chinese History and Culture <sup>Ⓢ</sup>	Chinese	
	MAHPHIL	8. Master of Arts in Philosophy	Chinese/English	
	MFA	9. Master of Fine Arts	Chinese/English	3 academic years
	MDESVCD	10. Master of Design in Visual Communication Design	Chinese/English	2 academic years
Faculty of Business Administration	EMBA	1. Executive Master of Business Administration <sup>Ⓢ</sup>	Chinese/English	2 academic years
	MBA	2. Master of Business Administration	English	
	MSBACCT	3. Master of Science in Accounting		
	MSBFNA	4. Master of Science in Finance		
	MSBIIRM	5. Master of Science in International Integrated Resort Management		
	MSBBAS	6. Master of Science in Business Analytics		
Faculty of Education	PMEDEDUCUI PMEDEDUCNE PMEDEDUCNE PMEDEDUMAE PMEDEDUSCE PMEDEDUEDT PMEDEDUEAD PMEDEDUECE PMEDEDUEPS PMEDEDUSCC	1. Master of Philosophy in Education - Curriculum & Instruction - English Language Education - Chinese Education - Mathematics Education - Science Education - Educational Technology - Educational Administration - Early Childhood Education - Educational Psychology - Physical Education & Sport Studies - School Counseling	Chinese/English	2 academic years
	MAEDTES	2. Master of Arts in Teaching English to Speakers of Other Languages	English	
Faculty of Law	MSLLCBD MSLLCPL MSLLCIP MSLLBUL	1. Master of Law (Chinese Language) - Constitutional Law, Basic Law and Administrative Law - Criminal Law and Criminal Procedural Law - Law - Civil Law and Intellectual Property Law - International Business Law	Chinese	2 academic years

Faculty	Programme Code	Programme	Medium of Instruction	Normal Duration of Study
	MELLEUR MELLINL MELLCOL	2. Master of Law in European Union Law, International Law and Comparative Law (English Language) - European Union Law - International Law - Comparative Law	English	
	MIBLINB	3. Master of Law in International Business Law (English Language)	Portuguese	
	MPLLJUS MPLLJPS	4. Master of Law (Portuguese) - Juridical Sciences - Juridical - Political Sciences		
	MMLLLP	5. Master of Law in Macau Law and Practice <sup>®</sup>		
Faculty of Social Sciences	MASSCOMMCOM	1. Master of Arts in Communication - Communication and New Media <sup>®</sup>	English	2 academic years
	MSSIRE	2. Master of Social Sciences in International Relations <sup>®</sup>		
	MSSEUS	3. Master of Social Sciences in European Studies		
	MSSPAD	4. Master of Social Sciences in Public Administration <sup>®</sup>	Chinese	
	MSSCRI	5. Master of Social Sciences in Criminology and Criminal Justice	English and supplemented with Chinese	3 academic years
	MSSECO	6. Master of Social Sciences in Economics <sup>®</sup>	English	
	MSSCCPY	7. Master of Social Sciences in Clinical Psychology <sup>®</sup>	English	
	PMSSMOS	8. Master of Philosophy in Macao Studies	Chinese/English	2 academic years
Faculty of Science and Technology	MSCCOS	1. Master of Science in Computer Science	English	2-3 academic years
	MSCICIV	2. Master of Science in Civil Engineering		2 academic years
	MSCIECT	3. Master of Science in Electrical and Computer Engineering		
	MSCIEMG	4. Master of Science in Electromechanical Engineering		
	MSTMAT	5. Master of Science in Mathematics		
	MSCIFNT	6. Master of Science in Financial Technology		
	MSCIIOT	7. Master of Science in Internet of Things		
	MSCICES	8. Master of Science in Coastal Environment and Safety		
	MSCIRAS	9. Master of Science in Robotics and Autonomous Systems		
	MSCIAI	10. Master of Science in Artificial Intelligence		
	MSCICPR	11. Master of Science in Construction Project Management		
	MSCISOT	12. Master of Science in Smart Ocean Technology		
	MSCIFSDR	13. Master of Science in Fire Safety & Disaster Response	Chinese	
Institute of Applied Physics and Material Engineering	MSPIVM	1. Master of Science in Innovative Materials	English	2 academic years

Faculty	Programme Code	Programme	Medium of Instruction	Normal Duration of Study
Institute of Collaborative Innovation	MSDDTSAIS MSDDTSMKA MSDDTSFIT MSDDTSDSC MSDDTSPMD MSDDTSCPG MSDDTSATL MSDDTSSGO	1. Master of Science in Data Science - Artificial Intelligence Applications - Marketing Analytics - Financial Technology - Data Strategy and Compliance - Precision Medicine - Computational Linguistics - Analytics in Teaching and Learning - Smart Governance	English/Chinese	2 academic years
	MSDCON	2. Master of Science in Cognitive Neuroscience	English	
Institute of Chinese Medical Sciences	PMCMCMS	1. Master of Philosophy in Chinese Medicinal Science	English but supplemented with Chinese	2 academic years
	PMCMMAAD	2. Master of Philosophy in Medicinal Administration		
	MCMMADM	3. Master of Science in Medicinal Administration		
Institute of Microelectronics	MSCEMIC	1. Master of Science in Microelectronics	English	2 academic years
	PMSCEMIC	2. Master of Philosophy in Microelectronics		3 academic years

Most of the above programmes are evening programmes, classes start after 6:00 p.m. Please consult the Academic Unit concerned for exact class schedule.

① Courses will normally be conducted in daytime during weekdays.

② Please visit the Graduate School's website for more details regarding the specific English proficiency requirement.

## 2. LIST OF POSTGRADUATE CERTIFICATE / DIPLOMA PROGRAMMES TO BE OFFERED IN 2025/2026

Faculty	Programme Code	Programme	Medium of Instruction	Normal Duration of Study
Faculty of Education	PGCEPRD PGCEPYD PGCESED	1. Postgraduate Certificate in Education - Pre-Primary Education ② - Primary Education ② - Secondary Education ②	Chinese	1 academic year
Faculty of Law	LML	1. Introduction to Macao Law ②	Chinese	2 academic years

② Please visit the Graduate School's website for more details regarding the specific English proficiency requirement.

## 3. ADMISSION REQUIREMENTS

### 3.1. Master's Degree Programmes

- 3.1.1 An applicant of a Master's degree programme must possess a Bachelor's degree or academic background recognized as equivalent by the University of Macau. An applicant may also be required to possess other knowledge or professional experience.
- 3.1.2 Applicants currently studying in the final year of Bachelor's degree programmes may also submit applications. Successful applicants will be provisionally offered and will only be formally admitted upon successful completion of their Bachelor's degree programmes with overall result satisfying the requirements set by the respective programme.
- 3.1.3 Applicants should have achieved the equivalent\* of an overall result of Grade C+ or better in the Bachelor's degree studies. (Except for the Faculty of Law)
- 3.1.4 Applicants must fulfil the Language Proficiency requirement of the specific programme.

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- \* The equivalent means 2.3 on the 4.0 GPA scale, 14 on the 20-point scale or 70 out of 100.

3.2. Postgraduate Certificate / Diploma Programmes

3.2.1 An applicant of a postgraduate certificate / diploma programme must possess a Bachelor's degree or academic background recognized as equivalent by the University of Macau. An applicant may also be required to possess other knowledge or professional experience.

3.2.2 Applicants currently studying in the final year of Bachelor's degree programmes may also submit applications. Successful applicants will be provisionally offered and will only be formally admitted upon successful completion of their Bachelor's degree programmes with overall result satisfying the requirements set by the respective programme.

3.2.3 Applicants must fulfil the Language Proficiency requirement of the specific programme.

3.3 Applicants who received their Bachelor/Master's degree from a university where the medium of instruction was not English are required to provide one of the following as proof of English proficiency:

- Obtained a Level 6 of the College English Test (CET) score of 430 or;
- Obtained a TOEFL\* score of 550 (paper-based examination)/80 (Internet-based examination) or;
- An IELTS\* overall score of 6.0 or above with no sub-score lower than 5.5 or;
- Passed the Level 4 or Level 8 of the Test for English Majors (TEM).

Some academic units may have different requirements for proof of English proficiency.

Please visit the corresponding academic unit's website for more details.

\*Note: TOEFL and IELTS scores are valid for two years from the test date.

3.4 Please refer to the programme information for individual programme's specific admission requirements.

#### 4. APPLICATION PROCEDURES

Online application forms will be available during the application period. Applicants should submit their application via the Online Application System of the University at <https://grs.um.edu.mo/>. The University will only accept application via the Online Application System.

4.1 Read carefully the important notes before you proceed with your application.

4.2 You must have an e-mail address to register as a new user in order to submit an application. Applicants who have successfully registered will receive a reference number (e.g. 2XXXXXXX) and password by e-mail. You must keep such information to login to your account throughout the whole application procedure. (If you fail to receive the e-mail within 2 days, please contact us by phone at 8822 4898 or by e-mail at [gradschool@um.edu.mo](mailto:gradschool@um.edu.mo).)

4.3 Complete all relevant sections of the Online Application. It is recommended that you supply a local mobile number so that the University may notify applicants of any news by e-mail and SMS.

4.4 Scan and upload all required documents to the Online Application System. All submitted documents must be in A4 size, PDF format and the total size for all attached documents should NOT be greater than 6MB.

The documents should include:

- 4.4.1 Identification card copy.
- 4.4.2 Photo (passport size photo in JPG format with 300dpi, with no border and white background; this photo will be used for making the student identification card for all offered applicants.).
- 4.4.3 Certificate(s) and academic transcript(s) for the programme(s) taken and documents supporting information given in the application form.
- 4.4.4 Applicants currently studying in the final year of Bachelor's degree programmes should submit their most updated academic transcript (It must include at least 3 years' results, if the transcript has more than one page, you should scan all pages in ONE FILE and upload it at the appropriate area.), testimonial and documents supporting information given in the application form.  
(Applicants currently studying in the final year of Bachelor's degree at the University of Macau do not need to submit the Bachelor's degree transcript and testimonial, other documents remain the same with other applicants.)
- 4.4.5 Applicants (in-service teachers) of Postgraduate Certificate in Education Programme (PGCE) must submit one Teacher's I.D. card copy.
- 4.4.6 Recommendation forms
  - 4.4.6.1 Applying for the Postgraduate Certificate in Education Programme, in-service teachers must use the paper recommendation form provided by the Faculty of Education (this recommendation form can be downloaded at the Graduate School's website at <https://grs.um.edu.mo/>). Pre-service teachers must use the paper recommendation form provided by the Graduate School. Only one recommendation form is required, the form should be sealed in an envelope by your referee and forwarded/sent to the Graduate School directly.
  - 4.4.6.2 No recommendation form is required from applicants of Introduction to Macao Law programme (LML) and Improvement of Legal Practice and Language programme (LPL).
  - 4.4.6.3 Applicants of all the other programmes must use the recommendation forms provided by the Graduate School. Each application must submit two recommendation forms. One of the recommendation forms must be completed by university academics. If applying for admission to programmes taught in English, English recommendation forms should be used.
  - 4.4.6.4 Further to 4.4.6.3, paper recommendation and online recommendation forms are both accepted. If you prefer to submit online recommendation forms, you must make sure your referees submit your recommendation forms to us before the application deadline. An automatic notification e-mail will be sent to the applicant once we receive the recommendation forms. If applicants do not receive this e-mail, that means your referee has not submitted the online recommendation form for you yet. You should contact your referee as soon as possible to make sure that it is submitted by the application deadline. If you choose to use paper recommendation forms, the forms should be sealed in an envelope by your referee and forwarded/sent to the Graduate School directly. Please write on the envelope your

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application number DP-CX-XXXX-X or reference number 2XXXXXXX before sending the recommendation form to us.

- 4.4.7 Proof of English proficiency (please refer to Item 3.3 under Admission Requirements for details.)
- 4.4.8 Applicants who received their Bachelor/Master's degree from a university where the medium of instruction was English are required to provide a proof of English as the medium of instruction, if deemed necessary, issued by the applicants' university where their Bachelor/Master's degree was obtained (UM's current students and graduates are not required to provide such proof).
- 4.4.9 Students applying for admission to programmes taught in English must submit English version of certificate(s)/testimonial(s) and academic transcript(s).
- 4.4.10 Application without the above mentioned documents enclosed will not be processed.
- 4.4.11 Documents submitted to the University will not be returned to the applicant.
- 4.5 Verify all application data before submitting the application. Once the application is submitted, no data can be changed. Each applicant can submit only one application in the same academic year. If necessary, the applicant can indicate in his/her application a maximum choice of two programmes with priority given to each programme. Although the applicant can apply for two programmes, application fee will be charged once only.
- 4.6 Settle the application fee by the deadline of the application period (For more details, please refer to Point 7).
- 4.7 Once the application fee is settled, an acknowledgment e-mail with an application number (DP-CX-XXXX-X) will be sent to you by e-mail. Applications without an application number will not be regarded as valid. If you do not receive any acknowledgment e-mail, please contact us by e-mail at [gradschool@um.edu.mo](mailto:gradschool@um.edu.mo).
- 4.8 If the academic documents provided are not in Chinese/English/Portuguese, applicants must submit an English version of certificate(s)/testimonial(s) and academic transcript(s) issued by the respective university/institution. Applicants can also submit translated English copies of the documents. Otherwise, the application will not be considered.
- 4.9 Late applications will be considered only under very special circumstances.
- 4.10 Admission results will be released via the Online Application System. Candidates should follow the admission procedures as stipulated in the Online Application System and the offer letter to confirm acceptance. Offered candidates must settle the non-refundable tuition fee of 1st semester or the non-refundable deposit listed on the debit note for payment. The non-refundable deposit will be used to offset part of the tuition fee payable for that academic year. If candidates fail to confirm acceptance and settle the fees within the prescribed period as printed on the offer letter, the offer of admission will be cancelled. All fees paid are non-refundable.
- 4.11 Applicants will be given conditional offer in the following circumstances.
- 4.11.1 Applicants currently studying in the final year of Bachelor's degree programmes will be conditionally offered and will only be formally admitted upon successful completion of their Bachelor's degree programmes with overall result satisfying the admission requirements.
- 4.11.2 In special cases, applicants are required to submit proof of English proficiency



before formally admitted.

## 5. SELECTION

Should an interview be required for application to a certain programme, the academic unit concerned will inform candidate for further details of the interview.

## 6. MASTER ASSISTANTSHIPS

Assistantships are available to Master students of the University which serve as source of stipend for students. Please refer to the *Fudning Guidelines for Research Assistantships* and *Funding Guidelines for Teaching Assistantships* for further details.

## 7. APPLICATION FEE

The application fee for each application is MOP200.00. The application fee is non-refundable. The application fee payments must be made by the deadline of the application period:

- 7.1 by online payment (please follow the payment instructions on the website);
- 7.2 by cheque, bank draft or cashier's order drawn on a bank in Macao and made payable to the "University of Macau". An additional handling charge of MOP50 is required for each foreign bank draft or cashier's order. However, the exact amount of handling fees depends on the amount charged by banks. Our University reserves the right to recover the difference.

(For 7.2, applicants must print the application fee payment slip after they have completed the application at the Online Application System and submit it to the Treasury Section at Room 1012, Administration Building for payment.)

## 8. TUITION FEES

- 8.1 Please refer to the Tuition Fees Scheme of postgraduate Programmes (which is available at GRS webpage: <https://grs.um.edu.mo/>) for further details.
- 8.2 Tuition Fees are subject to revision annually.

## 9. DEFERMENT OF STUDY FOR NEW STUDENTS

- 9.1 New students can apply for deferment of study for not more than one academic year. Application for such deferment should be made before class commencement. New students must fulfil all the conditions stated in their offer letters and submit the required amount of non-refundable tuition fee or non-refundable deposit before they become eligible to apply for deferment of study. Such applications will only be permitted for medical reasons and exceptional cases with sound justification. For medical reasons, students are required to submit medical certificates issued by hospitals at the time of application. For exceptional cases with sound justification, students are required to specify the reason and submit written certifications at the time of application.
- 9.2 Students who have deferred their studies and wish to return to the University should apply for resumption of study. Resumption is not granted automatically. Besides, new students are not permitted to transfer to another programme when they apply for resumption of study.
- 9.3 If students neither apply for resumption of study nor submit another deferment application before class commencement of the next semester after they have reached the previously approved deferment period, they will be considered having withdrawn from the University,

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and they have to apply for re-admission of study later if they wish to return to the University.

## **10. COURSE EXEMPTION**

Students who have completed equivalent or convertible courses in any tertiary education institutions may apply for course exemption to the academic unit concerned on or before the last day of course add/drop period. Applications should be submitted to the respective academic unit and be accompanied by supporting documents, showing that the students have passed equivalent courses elsewhere.

## **11. CANCELLATION OF PROGRAMMES**

The University reserves the right not to offer any programmes, or to suspend student intake temporarily, if supervening conditions require.

## **12. TERMINATION OF APPLICATION OR STUDY**

- 12.1 Applicants must guarantee that the information given in the application form is TRUE and the University of Macau reserves the right to terminate an application or study at any time if any information given in his/her application form is found later to be untrue, false or incorrect. Should such a case occur, no fees will be refunded.
- 12.2 Students must not enrol/register in any other universities upon registration at the University (except those with Joint Programme Agreements approved by the University). If students are found to be registered for more than one higher education programme, the University of Macau reserves the right to terminate his/her application or study at any time.

## **13. PERSONAL IDENTIFICATION**

Applications' identity is subject to the personal identification document held. Applicants must hold valid personal identification documents for admission:

- 13.1. Valid Macao identification card for Macao students;
- 13.2. Valid Hong Kong permanent identification card for Hong Kong students;
- 13.3. Valid Taiwan identification document for Taiwan region students;
- 13.4. Valid Mainland China identification card for Mainland China students;
- 13.5. Valid foreign passport for international students.
- 13.6. Non-local applicants must ensure that their identification documents can fulfil the entry requirements in Macao and they are eligible to apply for "Special Authorization to Stay" (study visa) after arrival. Non-local applicants should take responsibility that their identification documents held must comply with the Law of Macao to apply for "Special Authorization to Stay" for study purpose in Macao. For details, please refer to the Macao Public Security Police Force's website.
- 13.7. The University reserves the right to reject admission of students who hold expired or invalid personal identification documents. Students will be responsible for any consequences that might incur, should they fail to legally stay and study in Macao due

to their personal personal identification reason.

For Mainland China identification card or passport holders, please refer to the admission guidelines for Master's Degree Programmes for Mainland China applicants at <https://grs.um.edu.mo/>.

#### **14. SUBMISSION OF DOCUMENTS**

- 14.1. For Application:  
Applicants must scan and upload all required documents to the Online Application System of the University for application. Otherwise, the application will not be considered. (For details, please refer to Point 4.4.)
- 14.2. Upon Offer of Admission:  
Upon offer of admission, candidates will be requested to provide certified true copies of their academic documents or to present the originals before/during registration, otherwise, the offer of admission will be cancelled and the candidate will not be eligible for registration. All submitted documents will not be returned.

All documents submitted must be in A4 size. Applicants who fail to provide the required documents for verification or complete registration within specific period will be disqualified from admission and subsequent enrolment in the University.

#### **15. ADMISSION FOR STUDENTS WITH DISABILITIES**

With the purpose of providing an equal admission opportunity, necessary study environment and facilities for students with disabilities, the University has devised the "Admission Policy for Students with Disabilities".

Please visit the website at <https://grs.um.edu.mo/> for details.

# Bachelor's Degree Programmes

(Approved by the Rector on 09 May 2025)

## 1. List of Bachelor's programmes to be offered in 2025/2026 (Columns of "Joint Admission Examination subjects" and "UM Admission Examination subject" applicable to admission channel by "Admission Examination" only)

Faculty	Programme code	Programme	Language of instruction	Stream requirement	Joint Admission Examination subjects	UM Admission Examination subject	Remarks
Faculty of Arts and Humanities	FAHCLL	Bachelor of Arts - Chinese Language and Literature	Chinese (Cantonese and Mandarin)	--	1. Chinese 2. English 3. Mathematics Standard Paper	--	--
	FAHENS	Bachelor of Arts - English Studies	English				
	FAHHST	Bachelor of Arts - History	English but supplemented with Chinese (Cantonese and Mandarin)				
	FAHJAP	Bachelor of Arts - Japanese Studies	Japanese				
	FAHPTS	Bachelor of Arts - Portuguese Studies	Portuguese				No basic knowledge of Portuguese is required.
Faculty of Business Administration	FBAACC	Bachelor of Science - Accounting	English	--	1. Chinese 2. English 3. Mathematics Standard Paper	--	--
	FBABIA	Bachelor of Science - Business Intelligence and Data Analytics					
	FBAFNC	Bachelor of Science - Finance					
	FBAGBS	Bachelor of Business Administration					Students will have the common curriculum for the first two academic years while they can declare one of the following five majors: "Business Economics", "Global Business Management", "Human Resources Management", "Marketing" or "Financial Controllership" during the 2nd academic year.
	FBAIIR	Bachelor of Science - International Integrated Resort Management					Students should declare one of the following two specializations: "Gaming Management" or "Convention and Hospitality Management" during the 2nd academic year.

Faculty	Programme code	Programme	Language of instruction	Stream requirement	Joint Admission Examination subjects	UM Admission Examination subject	Remarks	
Faculty of Education	FEDCHN	Bachelor of Education - Education (Chinese)	Chinese (Cantonese and Mandarin)	--	1. Chinese 2. English 3. Mathematics Standard Paper	--	<ul style="list-style-type: none"><li>An interview is required as admission criteria for eligible Admission Examination applicants. Interview will be arranged during 5 - 6 April 2025.</li></ul>	
	FEDENG	Bachelor of Education - Education (English)	English					
	FEDINS	Bachelor of Education - Education (Integrated Science)	Chinese (Cantonese and Mandarin) and English	Science; applicants must have studied Physics, Chemistry and Biology in senior secondary school	1. Chinese 2. English 3. Mathematics Standard Paper 4. Mathematics Supplementary Paper	5. Physics	<ul style="list-style-type: none"><li>For Bachelor of Education - Education (Integrated Science), students should declare one of the following three specializations: "Biology" , "Chemistry" , or "Physics" .</li></ul>	
	FEDMAS	Bachelor of Education - Education (Mathematics)	English and Chinese (Cantonese and Mandarin)	--	1. Chinese 2. English 3. Mathematics Standard Paper 4. Mathematics Supplementary Paper	--		An interview is required as admission criteria for eligible Admission Examination applicants. Interview will be arranged during 5 - 6 April 2025.
	FEDPPE	Bachelor of Education - Pre-Primary Education	Chinese (Cantonese and Mandarin) but supplemented with English	--	1. Chinese 2. English 3. Mathematics Standard Paper	--		
	FEDPYE	Bachelor of Education - Primary Education						
Faculty of Health Sciences	FHSBIF	Bachelor of Science - Bioinformatics	English	Science; if the applicant's stream is not in science, they must have studied Chemistry and Biology in senior secondary school	1. Chinese 2. English 3. Mathematics Standard Paper	--	--	
	FHSBIO	Bachelor of Science - Biomedical Sciences						
	FHSPHA	Bachelor of Science - Pharmaceutical Sciences and Technology						
Faculty of Law	FLLBLC	Bachelor of Law in Chinese Law and Global Legal Studies	English	--	1. Chinese 2. English 3. Mathematics Standard Paper	--	--	
	FLLBLD	Bachelor of Law in Chinese Language (Daytime)	Chinese (Cantonese and Mandarin)		1. Chinese 2. English / Portuguese B			
	FLLBLE	Bachelor of Law in Chinese Language (Evening)						
	FLLBLL	Bachelor of Law (Conducted in Chinese and Portuguese)	Chinese (Cantonese and Mandarin) and Portuguese					
	FLLWA	Bachelor of Law in Portuguese Language (Evening)	Portuguese					1. Portuguese A 2. Chinese / English

Faculty of Social Sciences	FSSCOM	Bachelor of Social Sciences - Communication	English	--	1. Chinese 2. English 3. Mathematics Standard Paper	--	Students should declare one of the following specializations: "Creative Media", "Public Communication" or "Journalism and Mass Communication" during the 1st academic year.	
	FSSECN	Bachelor of Social Sciences - Economics					--	
	FSSGPA	Bachelor of Social Sciences - Government and Public Administration					Students should declare one of the following two specializations: "Public Administration" or "International and Public Affairs" during the 1st academic year.	
	FSSPSY	Bachelor of Social Sciences - Psychology					--	
	FSSSOC	Bachelor of Social Sciences - Sociology						
Faculty of Science and Technology	FSTAPC	Bachelor of Science - Applied Physics and Chemistry	English	Science; if the applicant's stream is not in science, they must have studied Physics and Chemistry in senior secondary school	1. Chinese 2. English 3. Mathematics Standard Paper 4. Mathematics Supplementary Paper	5. Physics	--	
	FSTCPS	Bachelor of Science - Computer Science		Science		--		
	FSTCVE	Bachelor of Science - Civil Engineering		Science; if the applicant's stream is not in science, they must have studied Physics in senior secondary school		5. Physics		
	FSTECE	Bachelor of Science - Electrical and Computer Engineering						
	FSTEME	Bachelor of Science - Electromechanical Engineering						
	FSTMAA	Bachelor of Science - Mathematics (Mathematics and Applications)						--
	FSTSDS	Bachelor of Science - Mathematics (Statistics and Data Science)						

## 2. Application Requirement

2.1 Applicants may apply for admission to the bachelor's programme by the following channels, whichever is applicable to them:

### 2.1.1 Admission Examination

Applicants with any of the following qualifications may apply for bachelor programme by Admission Examination:

- 2.1.1.1 Form 6 graduates or equivalent.
- 2.1.1.2 Candidates currently enrolled in Form 6 or equivalent.
- 2.1.1.3 For applicants aged 23 or above on 1 September 2025.

### 2.1.2 Direct Admission

Applicants obtained with public examination result or qualifications for undergraduate admission may apply by Direct Admission channel. You can refer to Item 4 for details.

## 3. Admission Examination

- 3.1 Applicants should settle the application fee within the application period. Applications will be regarded as invalid should the applicant fail to pay the application fee by the application deadline. The application fee paid or in case of any excess payment will not be refunded.

Admission channel	Application period	Application fee
Admission Examination	02 – 16/01/2025	MOP250

### 3.2 Application requirements

Application requirements	Required academic documents
3.2.1 Form 6 graduates or equivalent.	<ul style="list-style-type: none"> <li>▪ Copies of certificate(s) and academic transcripts for Form 6 or equivalent in secondary school.</li> </ul>
3.2.2 Candidates currently enrolled in Form 6 or equivalent.	<ul style="list-style-type: none"> <li>▪ Copies of academic transcripts for the first semester of Form 6 or equivalent in secondary school.</li> <li>▪ If the Form 6 transcript is not available during the application period, applicants may submit the Form 5 transcript together with the page stating you are a current Form 6 student extracted from the DSEDJ student card (if applicable) or provide the testimonial to show currently enrolled Form 6.</li> </ul>
3.2.3 For applicants aged 23 or above on 1 September 2025	---

- 3.3 Applicants should take the examination subjects according to the admission requirements of their applied programmes. Admission Examination includes:

- 3.3.1 Joint Admission Examination for Macao Four Higher Education Institutions (Subjects: Languages and Mathematics) (hereinafter referred to as “JAE”) Four higher education institutions of Macao namely the University of Macau, Macao Polytechnic University, Macao University of Tourism and Macao University of Science and Technology (hereinafter referred to as “the Four Institutions”) jointly implement the “Joint Admission Examination for Macao Four Higher

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Education Institutions (Subjects: Languages and Mathematics)” since 2017. JAE refers to the admission examinations on four subjects, namely Chinese, Portuguese, English and Mathematics jointly organised by the Four Institutions. Any written examination or interview for subjects other than these four subjects shall be arranged and announced by the Four Institutions individually. JAE subjects includes **Chinese (JC01)**, **Portuguese Paper A (JP01)**, **Portuguese Paper B (JP02)**, **English (JE01)**, **Mathematics Standard Paper (JM01)** and **Mathematics Supplementary Paper (JM02)**.

3.3.2 University of Macau Admission Examination (hereinafter referred to as “UM Admission Examination”)

Except the JAE subjects, according to the UM programmes’ admission requirement, applicants also need to sit for UM Admission Examination subject in order to meet the admission requirement. UM Admission Examination subject is **Physics (H101)**.

3.4 Application for exemption from taking particular Admission Examination subjects

3.4.1 Admission Examination candidates may apply for exemption from taking particular Admission Examination subjects if they meet the below requirement:

3.4.1.1 Chinese (JC01)

Applicants without basic education in Chinese Language and Literature during the last three years of study in secondary education may apply for exemption from the JAE Chinese subject. However, applicants who have applied for the programmes with Chinese as the medium of instruction must sit for the JAE Chinese; otherwise the application will not be processed.

3.4.1.2 English (JE01)

3.4.1.2.1 Applicants who have attained any of the following results may apply for exemption from the JAE subject English.

Test of English as a Foreign Language (TOEFL)

- Internet-based test: a minimum score of 80.

International English Language Testing System (IELTS)

- Band 6.0 or above.

3.4.1.2.2 The above score validity period is two years from the test-date

3.4.1.3 Mathematics Standard Paper (JM01) and Mathematics Supplementary Paper (JM02)

During the last three years of secondary school study, applicants who have been awarded the “First Class or Second Class Award” in the Individual Category of Inter-School Mathematics Competition organized by the Education and Youth Development Bureau (DSEDJ) may apply for exemption from taking the JAE subject Mathematics Standard Paper and Mathematics Supplementary Paper.

3.4.2 Application procedure

3.4.2.1 Applicants must submit below required documents to the Registry



within the period of **09/12/2024 - 10/01/2025** (applicants applying to other higher education institutions must abide by the application period and regulations established by the relevant institution(s)).

- 3.4.2.1.1 Exemption applications should be submitted with a completed application form of "Exemption from Taking Admission Examination Subjects" (REG/Form/050) form. The application form can be downloaded from the Registry's website of "Admission Examination".
- 3.4.2.1.2 Exemption applications should be submitted with certified true copies of supporting documents (applicants can bring both originals and copies of documents while the copies will be certified by Registry staff on site).

3.4.2.2 Applicants have to state their programme choices on their Exemption Application forms. Exemption will be considered based on these choices as well as the documents submitted.

3.4.2.3 Exemption applications without supporting documents or late applications will not be processed.

3.4.2.4 If the application for exemption of any JAE subject is approved by all the applied institution(s), a remark "Examination Exempted" will be printed for that subject on the candidate's JAE Examination Permit. On the notification of the Admission Examination results, the results for any subject exempted will be represented as "Exempted".

3.4.2.5 If the application for exemption of the JAE subject is not approved by all the applied institution(s), the candidate must attend the examination in order to fulfil the admission requirements of the institution(s).

3.4.2.6 Candidates who are granted exemption will be pooled together with all the other applicants for admission selection. To be considered eligible for admission, candidates still have to fulfil other admission criteria of the programmes.

### 3.5 Bonus Scheme

3.5.1 The University has introduced the "Bonus Scheme" for the candidates of the Admission Examination who possess documented merits in these fields: academic awards, sports, musicianship, dance, community service or participation in UM Summer Camp. Upon examination and verification by the University, applicants with any of the above talents will be awarded 20 to 50 additional points for all of their Admission Examination results. Please visit our website of "Bonus Scheme" for details.

3.5.2 Applicants must submit an on-line application together with all required documents within the application period of **13 - 24/01/2025**.

### 3.6 Admission Policy for Students with Disabilities

When applying for admission to the University, applicants with a disability may choose to disclose their conditions on a voluntary basis and request a special arrangement for

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admission assessment. For the application procedure of JAE special arrangement, please refer to the appendix “Information of Joint Admission Examination (JAE) for Macao Four Higher Education Institutions (Subjects: Languages and Mathematics)” for detailed information. For application for University of Macau Admission Examination special arrangement, please visit Registry’s website of “Admission Policy for Students with disability” for details.

### 3.7 Announcement and Rechecking of Admission Examination results

3.7.1 JAE and UM Admission Examination results will be released via the On-line Application System. Admission Examination results will not be re-issued.

3.7.2 A candidate may apply to recheck his/her Admission Examination results while the request should be made before the prescribed deadline after the release of Admission Examination results.

3.7.3 The Chief Examiner of concerned subject will re-check the scores for each section, the total score of the answer sheet and any written scripts completed for the examination.

3.7.4 For application procedure of rechecking JAE subjects results, please refer to the appendix “Information of Joint Admission Examination (JAE) for Macao Four Higher Education Institutions (Subjects: Languages and Mathematics)”. If candidates request for rechecking UM Admission Examination subject result, please refer to point 3.7.5.

#### 3.7.5 Rechecking procedures

3.7.5.1 Candidates should submit an on-line application form for rechecking Admission Examination results to the Registry within the specified period. Late applications will not be processed.

3.7.5.2 MOP50 is charged for rechecking the Admission Examination subject.

3.7.5.3 Candidates will be informed by email of their rechecking results within 5 working days after the application deadline.

3.7.5.4 The rechecked results will be served as the final decision. Further request for rechecking will not be accepted.

3.7.5.5 Under no circumstances will the University disclose the examination papers and answers of a candidate.

### 3.8 Offer and Admission process

3.8.1 Selection of qualified Admission Examination candidates will be based on the candidates’ priority of choices, Admission Examination results and the admission quotas of each programme. For applicants of Faculty of Education programmes, qualified candidates need to attend the interview as one of the selection criteria.

3.8.2 Offer results will be released via the On-line Application System. The admission decision released is the final result of all choices applied, not the result of particular choice(s).

3.8.3 Candidates should follow the admission procedures as stipulated in the On-line

Application System and the offer letter to confirm acceptance. Offered candidates must settle the tuition fee of 1st semester listed on the debit note for payment. If candidates fail to confirm acceptance and settle the fees within the prescribed period as printed on the offer letter, the offer of admission will be cancelled. All fees paid are non-refundable except for those situations referred to item 12.

- 3.8.4 Offered candidates will be requested to provide certified true copies of documents stated in the "Offer of Admission" for registration. Candidates may choose to submit originals of documents requested, or present the originals and copies for certification by the Registry. Offered candidates who fail to provide the original of the required documents for verification or cannot complete registration within specific period will be disqualified from admission and subsequent enrolment in the University.
- 3.8.5 All documents submitted will not be returned.
- 3.8.6 Candidates who receive an admission offer cannot change programme of study.
- 3.9 Summer English Programme
- 3.9.1 Except Bachelor of Arts in Chinese Language and Literature, Bachelor of Education in Chinese and Bachelor of Law in Chinese Language, Bachelor of Law (Conducted in Chinese and Portuguese), Bachelor of Law in Portuguese Language programmes, offered candidates with the English (JE01) subject score below a specific score must take and pass the Summer English Programme before admission can be confirmed. Classes will be scheduled during 25/06 ~ 15/07/2025.
- 3.9.2 The programme fee will be announced and settled upon offer of admission. Students who fail to settle the fees within the prescribed period will be disqualified from admission. The fees paid are non-refundable.
- 3.10 University of Macau Lotus Scholarship for Admission Examination
- 3.10.1 Candidates with outstanding performance in the Admission Examination will be granted the above Scholarship and they do not need to apply therefor. Please refer to the Registry's website of "Undergraduate Admissions" for details.
- 3.10.2 Scholarship selection is based on a candidate's Admission Examination result, not including the bonus marks added through "Bonus Scheme".
- 3.10.3 Candidates who have been exempted from taking particular Admission Examination subject(s) will not be eligible for selection of University of Macau Lotus Scholarship for Admission Examination.
- 3.10.4 All eligible candidates must hold a valid Macao I.D. card and will be registered students of the current year. Otherwise, the University reserves the right to disqualify the student's scholarship.
- 3.11 Important dates for Admission Examination

Date	Description
09/12/2024 ~ 10/01/2025	<ul style="list-style-type: none"> <li>Application period for exemption from taking particular Admission Examination subjects (must be submitted by paper application to the Registry)</li> </ul>

Date	Description
02 ~ 16/01/2025	▪ Application period for Admission Examination (All applications must be submitted via On-line Application System)
13 ~ 24/01/2025	▪ Application period for Bonus Scheme for Admission Examination (All applications must be submitted via On-line Application System)
05 ~ 16/03/2025	▪ Download JAE and UM Admission Examination permit via On-line Application System
13 ~ 16/03/2025	▪ JAE and UM Admission Examination
Early April 2025	▪ Interview for eligible applicants (applicable to programme of Faculty of Education only)
First week of May 2025	▪ Announcement of JAE and UM Admission Examination results via the On-line Application System
	▪ Announcement of Admission Examination offer results via On-line Application System
	▪ Candidates who receive admission offers are required to download "Offer of Admission", debit note for payment and related documents via the On-line Application System. Candidates are required to return the signed "Statement of Acceptance" and settle the tuition fee for admission confirmation within the specified period
25/06 ~ 15/07/2025	▪ Summer English Programme
Early July 2025	▪ New students are required to download registration information via On-line Application System
09 ~ 18/07/2025	▪ Payment period of Residential college fee and security deposit
23 ~ 25/07/2025	▪ New students registration: submit all required documents (originals and copies) and medical examination reports in order to validate the offer
11 ~ 12/08/2025	▪ New students move in Residential Colleges
11 ~ 17/08/2025	▪ New Student Orientation
18/08/2025	▪ Commencement of class for 2025/2026 academic year

Note: The above schedule is subject to change.

#### 4. Direct Admission

- 4.1 Applicants with any of the following qualifications may apply to bachelor's programme by Direct Admission.

4.1.1 Public Examinations/Qualifications				
	Category	Application requirements	Required academic documents (for potential Form 6 graduates)	Required academic documents (for Form 6 graduates)
A	General Certificate of Education – Advanced Level (GCE A-Level) / International Advanced Level (IAL)	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent; AND</li> <li>■ Grade C or above in 3 Advanced Level subjects (not including English/Chinese subject). <ul style="list-style-type: none"> <li>❖ For applicants to Faculty of Science and Technology, the above mentioned subjects must include Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, the above mentioned subjects must include Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ Predicted A-Level grade issued by school (final official grade must be submitted to the university via email upon release).</li> </ul> <p>Attention: as the class commencement of 2025/2026 will be tentatively scheduled on 18 Aug 2025, applicants who apply with the intended A-Level result to be released in Aug 2025 must follow our admission procedure and schedule so as to ensure smooth course enrolment and class attendance.</p>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ A-Level official certificate.</li> </ul>
B	Exames Nacionais do Ensino Secundário (ENES), Portugal	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent.</li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ Examination permit of ENES (ENES result must be submitted to the university via email upon release).</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ ENES results.</li> </ul>
C	Exame Nacional do Ensino Médio (ENEM), Brazil	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent.</li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ Examination permit of ENEM (ENEM result must be submitted to the university via email upon release).</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ ENEM results.</li> </ul>
D.1	Hong Kong Diploma of Secondary Education (HKDSE) for year 2024 onwards	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent; AND</li> <li>■ Obtained the following results in HKDSE in one sitting: <ul style="list-style-type: none"> <li>✓ Level 3 or above in English Language; and</li> <li>✓ Level 3 or above in Chinese Language; and</li> <li>✓ Level 2 or above in Mathematics; and</li> <li>✓ "Attained" in Citizenship and Social Development; and</li> <li>✓ Level 3 or above in two elective subjects (Category A)</li> </ul> </li> <li>❖ For applicants to Faculty of Science and Technology, applicants must have obtained Level 3 or above in the elective subject of Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, applicants must have obtained Level 3 or above in the elective subject of Chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ HKDSE examination permit (HKDSE result must be submitted to the university via email upon release).</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ HKDSE results.</li> </ul>
D.2	Hong Kong Diploma of Secondary Education (HKDSE) on or before year 2023	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; and</li> <li>■ Obtained the following results in HKDSE in one sitting: <ul style="list-style-type: none"> <li>✓ Level 3 or above in English Language; and</li> <li>✓ Level 3 or above in Chinese Language; and</li> <li>✓ Level 2 or above in Mathematics; and</li> <li>✓ Level 2 or above in Liberal Studies; and</li> <li>✓ Level 3 or above in one elective subject</li> </ul> </li> <li>❖ For applicants to Faculty of Science and Technology, applicants must have obtained Level 3 or above in the elective subject of Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, applicants must have obtained Level 3 or above in the elective subject of Chemistry.</li> </ul>		<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ HKDSE results.</li> </ul>

#### 4.1.1 Public Examinations/Qualifications

	Category	Application requirements	Required academic documents (for potential Form 6 graduates)	Required academic documents ( for Form 6 graduates )
E	International Baccalaureate Diploma (IB)	<ul style="list-style-type: none"> <li>■ Successfully completed the International Baccalaureate Diploma Programme Curriculum and awarded the International Baccalaureate Diploma; or</li> <li>■ Potential graduate of International Baccalaureate Diploma; AND</li> <li>■ IB diploma with 28 points or above (out of overall total score at 45).               <ul style="list-style-type: none"> <li>❖ For applicants to Faculty of Science and Technology, applicants must have obtained Higher Level (HL) Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, applicants must have obtained Higher Level (HL) Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Predicted IB grade issued by school. Final official grade must be submitted to the university via the IB official platform. (Official code: 003718).</li> </ul>	<ul style="list-style-type: none"> <li>■ IB Diploma; and</li> <li>■ IB transcripts showing all the courses and grades.</li> </ul>
F	General Scholastic Ability Test (GSAT), Taiwan	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent; AND</li> <li>■ Obtained the following GSAT results in 4 subjects:               <ul style="list-style-type: none"> <li>✓ English subject result at "Good Standard" or above; and</li> <li>✓ Result in the other three subjects at "Average Standard" or above.</li> </ul> </li> <li>❖ For applicants to the Faculty of Science and Technology, the Mathematics subject at "Good Standard" or above.</li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ GSAT result</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ GSAT results.</li> </ul>
G	Scholastic Assessment Test (SAT) & American College Board Advanced Placement (AP)	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent; AND</li> <li>■ SAT score at 1,190 or above (out of overall total score at 1,600); AND</li> <li>■ AP in 2 subjects, each with Grade 3 or above (out of overall total score at 5).               <ul style="list-style-type: none"> <li>❖ For applicants to Faculty of Science and Technology, the above-mentioned AP subjects must include Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, the above-mentioned AP subjects must include Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ SAT results; and</li> <li>■ AP transcript; and</li> <li>■ SAT and AP score via the official platform (Official code: 10330)</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ SAT official results; and</li> <li>■ AP final score; and</li> <li>■ SAT and AP score via the official platform (Official code: 10330).</li> </ul>
H	American College Testing (ACT) & American College Board Advanced Placement (AP)	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; or</li> <li>■ Currently enrolled in Form 6 or equivalent; AND</li> <li>■ ACT composite score at 24 or above. AND</li> <li>■ AP in 2 subjects, each with Grade 3 or above (out of overall total score at 5).               <ul style="list-style-type: none"> <li>❖ For applicants to Faculty of Science and Technology, the above-mentioned AP subjects must include Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, the above-mentioned AP subjects must include Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ ACT results; and</li> <li>■ AP transcript; and</li> <li>■ ACT score via the official platform (Official code: 8202); and</li> <li>■ AP score via the official platform (Official code: 10330).</li> </ul>	<ul style="list-style-type: none"> <li>■ Form 6 completion certificate or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent; and</li> <li>■ ACT results; and</li> <li>■ AP final score; and</li> <li>■ ACT score via the official platform (Official code: 8202); and</li> <li>■ AP score via the official platform (Official code: 10330).</li> </ul>
I	Unified Examination Certificate (UEC)	<ul style="list-style-type: none"> <li>■ Successfully completed Form 6 or equivalent; AND</li> <li>■ Passed in Grade C or above in at least 6 subjects in UEC.               <ul style="list-style-type: none"> <li>❖ For applicants to Faculty of Science and Technology, the above mentioned subjects must include Physics.</li> <li>❖ For applicants to Faculty of Health Sciences, the above mentioned subjects must include Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>■ Certificate for Form 6 or equivalent; and</li> <li>■ Academic transcripts for Form 6 or equivalent in secondary school; and</li> <li>■ UEC results.</li> </ul>	

4.1.1 Public Examinations/Qualifications				
	Category	Application requirements	Required academic documents (for potential Form 6 graduates)	Required academic documents (for Form 6 graduates)
J	Sijil Tinggi Persekolahan Malaysia (STPM), Malaysia	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; AND</li> <li>Passed in Grade C or above in at least 3 subjects, other than language subject in STPM. <ul style="list-style-type: none"> <li>For applicants to Faculty of Science and Technology, the above mentioned subjects must include Physics.</li> <li>For applicants to Faculty of Health Sciences, the above mentioned subjects must include Chemistry.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Certificate for Form 6 or equivalent; and</li> <li>Academic transcripts for Form 6 or equivalent in secondary school; and</li> <li>STPM results.</li> </ul>	
K	Mathayom Suksa 6, Thailand	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; or</li> <li>Currently enrolled in Form 6 or equivalent.</li> </ul>	Mathayom Suksa 6 academic transcript	<ul style="list-style-type: none"> <li>Mathayom Suksa 6 certificate; and</li> <li>Mathayom Suksa 6 official result.</li> </ul>
L	SMA Ijazah, Indonesia	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; or</li> <li>Currently enrolled in Form 6 or equivalent.</li> </ul>	SMA Ijazah academic transcript.	<ul style="list-style-type: none"> <li>SMA Ijazah certificate; and</li> <li>SMA Ijazah academic transcript.</li> </ul>
M	Canadian Secondary School Qualifications	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; or</li> <li>Currently enrolled in Form 6 or equivalent; AND</li> <li>Provincial High School Graduation Diploma with an average of 80% or above in five Grade 12 subjects (For Ontario Secondary School Diploma-OSSD requires 80% in six Grade 12 subjects). <ul style="list-style-type: none"> <li>For applicants to Faculty of Science and Technology, the above-mentioned Grade 12 subjects must include Physics.</li> <li>For applicants to Faculty of Health Sciences, the above-mentioned Grade 12 subjects must include Chemistry.</li> </ul> </li> </ul>	Academic transcripts for Form 6 or equivalent issued by the province (Final official grade must be submitted to the university via email upon release).	<ul style="list-style-type: none"> <li>Provincial High School Graduation Diploma; and</li> <li>Provincial High School academic transcripts.</li> </ul>

Note: If an applicant provides the public examination/qualifications of past years, the University has the right to request for additional information such as study record and transcript of higher education institutions thereafter from the time of examination taken/admission to higher education institutions.

4.1.2 Qualifications of admission to bachelor programme/currently enrolled a bachelor programme				
	Category	Application requirements	Required academic documents (for potential graduates)	Required academic documents (for graduates)
A	Bachelor Degree Holder	<ul style="list-style-type: none"> <li>Successfully completed a bachelor programme and graduate of a bachelor degree; or</li> <li>Potential graduate of a bachelor degree.</li> </ul>	<ul style="list-style-type: none"> <li>Testimonial to show currently working on a bachelor programme.</li> <li>Official transcript of the bachelor programme.</li> </ul>	<ul style="list-style-type: none"> <li>Certificate of a bachelor programme; and</li> <li>Official transcript of the bachelor programme.</li> </ul>
B	Associate degree / higher diploma holder	<ul style="list-style-type: none"> <li>Successfully completed an associate degree or higher diploma and graduate/holder of the degree/diploma; or</li> <li>Potential graduate/holder of an associate degree or higher diploma; AND</li> <li>Cumulative GPA must attain 3.0 or above on a 4.0 scale.</li> </ul>	<ul style="list-style-type: none"> <li>Testimonial to show currently working on an associate degree/higher diploma.</li> <li>Official transcript of the associate degree/higher diploma.</li> </ul>	<ul style="list-style-type: none"> <li>Certificate of an associate degree/higher diploma; and</li> <li>Official transcript of the associate degree/higher diploma.</li> </ul>
C	Currently enrolled/had registered in a bachelor programme in other higher education institution	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; and</li> <li>Currently enrolled /had registered in a bachelor programme in other higher education institution.</li> </ul>	<ul style="list-style-type: none"> <li>Certificate for Form 6 or equivalent; and</li> <li>Academic transcripts for Form 6 or equivalent; and</li> <li>Testimonial to show currently enrolled/had registered in a bachelor degree; and</li> <li>Official transcript issued by the higher education institution.</li> </ul>	
D	Possess admission qualification to a bachelor programme	<ul style="list-style-type: none"> <li>Successfully completed Form 6 or equivalent; or</li> <li>Currently enrolled in Form 6 or equivalent; AND</li> <li>Qualifications that are acceptable for admission to bachelor's programme in higher education institutions outside Macao.</li> </ul>	<ul style="list-style-type: none"> <li>Academic transcripts for Form 6 or equivalent in secondary school; AND</li> <li>Official offer letter for bachelor programme of current year issued by a non-local higher education institution; or</li> <li>Official public examination result.</li> </ul>	<ul style="list-style-type: none"> <li>Form 6 completion certificate or equivalent; AND</li> <li>Academic transcripts for Form 6 or equivalent; and</li> <li>Official offer letter for bachelor programme of current year issued by a non-local higher education institution; or</li> </ul>

4.1.2 Qualifications of admission to bachelor programme/currently enrolled a bachelor programme				
	Category	Application requirements	Required academic documents (for potential graduates)	Required academic documents (for graduates)
		<ul style="list-style-type: none"> <li>Hold an official offer letter for bachelor programme issued by a recognized higher education institution outside Macao. The offer must be of <b>current admission year</b> while all conditions, if any, must be fulfilled; or</li> <li>Hold the public examination result for admission to a bachelor programme. If the result was taken in past years, the University has the right to request for additional information such as study record and transcript of higher education institutions thereafter from the time of examination taken.</li> </ul>		<ul style="list-style-type: none"> <li>Official public examination result.</li> </ul>

- 4.2 Applicants must upload all the required documents such as personal identification document and academic documents during the application period; otherwise, the application will not be processed.

Admission channel	Application period	Application fee
Direct Admission	03/02 ~ 07/04/2025	MOP300

- 4.3 Applicants should settle the application fee within the application period. Applications will be regarded as invalid should the applicant fail to pay the application fee by the application deadline. The application fee paid or in case of excessive payment will not be refunded.

#### 4.4 English Requirement

- 4.4.1 For applicants applying by Direct Admission, the English requirement stipulated in above-mentioned qualifications can be substituted by other public examination results stated in 4.4.2.

- 4.4.2 Students applying for a programme with English as the main teaching medium have to attend an interview to evaluate the applicant's English proficiency for admission. Applicants who have attained the following results may be exempted from the said interview:

Category	Requirement
Test of English as a Foreign Language (TOEFL)	Internet-based test: a minimum score of 80. (Score validity period is two years from the test-date)
International English Language Testing System (IELTS)	Band 6.0 or above. (Score validity period is two years from the test-date)
International General Certificate of Secondary Education (IGCSE)	Grade C / 5 or above in English subject.
For Malaysian students	<ul style="list-style-type: none"> <li>UEC-Senior English Language Grade B4 or above; or</li> <li>SPM English Language Grade C or above; or</li> <li>STPM English Language Grade C or above; or</li> <li>MUET Band 4 (Aggregated Score: 180-219)</li> </ul>



#### 4.5 Offer and Admission process

- 4.5.1 Assessment of admission will only be made on the academic documents submitted along with the on-line application. Admission selection will be based on the applicant's choices of programmes, admission quotas and interview (when applicable).
- 4.5.2 Offer results will be released via the On-line Application System. Notification email and SMS will be sent to candidates. The admission result released is the final academic decision of the application.
- 4.5.3 Candidates should follow the admission procedure as stipulated in the On-line Application System and the offer letter to confirm acceptance. Offered candidates must settle the tuition fee of 1st semester listed on the debit note for payment. If candidates fail to confirm acceptance and settle the fees within the prescribed period as printed on the offer letter, the offer of admission will be cancelled. All fees are non-refundable except for those situations referred to item 12.
- 4.5.4 Offer candidates will be requested to provide certified true copies of documents stated in the "Offer of Admission" during the registration period. Candidates may choose to submit originals of documents requested, or present the originals and copies for certification by the Registry. Offer candidates who fail to provide the original of the required documents for verification and complete registration within specific period will be disqualified from admission and subsequent enrolment in the University.
- 4.5.5 Candidates who receive an admission offer cannot change programme of study.
- 4.5.6 All documents submitted will not be returned.

- 4.6 According to the "Regulations of the Programmes of the University of Macau", students must withdraw from their original universities before transferring to the University of Macau

#### 4.7 Important Dates

Date	Description
03/02 ~ 07/04/2025	<ul style="list-style-type: none"> <li>Application period for Direct Admission (submitted via On-line Application System)</li> </ul>
Mid June 2025	<ul style="list-style-type: none"> <li>Candidates who receive admission offers are required to download "Offer of Admission", debit note for payment and related documents via the On-line Application System</li> <li>Return the signed "Statement of Acceptance" and settle the tuition fee for admission confirmation within the specified period</li> </ul>
Early July 2025	<ul style="list-style-type: none"> <li>New students are required to download registration information via the On-line Application System</li> </ul>
09 ~ 18/07/2025	<ul style="list-style-type: none"> <li>Payment period of Residential College fee and security deposit</li> </ul>
23 ~ 25/07/2025	<ul style="list-style-type: none"> <li>New students registration: submit all required documents (originals and copies) and medical examination reports in order to validate the offer</li> </ul>

11 ~ 12/08/2025	▪ New students move in Residential Colleges
11 ~ 17/08/2025	▪ New Student Orientation
18/08/2025	▪ Commencement of class for 2025/2026 academic year

Note: The above schedule is subject to change.

## 5. Mainland China Students Admission

Mainland China students may apply with below qualifications:

College Entrance Examination (Gaokao)

Applicants must take the College Entrance Examination in 2025 for admission to our bachelor's programme while the result needs to attain the admission standard of key universities in China. As for the score of English subject, the minimum requirement is 110 or above (on the base of 150 for English subject whilst score for other scale will be adjusted accordingly)

## 6. Admission Policy for Students with Disabilities

With the purpose of providing equal education opportunities for students with disabilities, the University has devised the "Admission Policy for Students with Disabilities". When applying for admission to the University, applicants with a disability may choose to disclose their conditions on a voluntary basis and request a special arrangement for admission assessment.

Please visit Student Affairs Office's website of "Disability Support Service" for information on disability support.

## 7. Personal Identification Documents

- 7.1 Applicants' identity is subject to the personal identification document held. Applicants must hold below valid personal identification documents during the whole application and admission process:

Identity Category	Personal Identification Document
Macao Student	a valid Macao I.D. card
Hong Kong Student	a valid Hong Kong permanent I.D. card
Taiwan region Student	a valid Taiwan region passport
Mainland China Student	a valid Mainland China I.D. card
International Student	a valid foreign passport

- 7.2 Where applicants hold more than one identification document, they can only use one throughout the whole admission process (i.e. application till registration). For instance, if an applicant holds both Macao and Hong Kong permanent identity cards, he/she can only choose to use his/her Macao I.D. card or Hong Kong permanent I.D. card for admission.
- 7.3 Non-local applicants must ensure that their identification documents can fulfil the entry requirements in Macao and they are eligible to apply for "Special Authorization to Stay" (study visa) after arrival. Non-local applicants should take responsibility that their identification documents held must comply with the Law of Macao to apply for "Special Authorization to Stay" for study purpose in Macao. For details, please refer to the Macao

Public Security Police Force's website.

- 7.4 University reserves the right to reject admission of students who hold expired or invalid personal identification documents. Students will be responsible for any consequences that might incur should they fail to legally stay and study in Macao due to their personal identification reason.

## 8. Application Procedures

### 8.1 Create an application account

8.1.1 The University will only accept application via the On-line Application System.

8.1.2 Applicants must have a valid email address and register as a new user before they can submit an application.

8.1.3 Applicants who have successfully registered the new account will receive a login number (e.g. 25xxxxxx) and a password by SMS message and email. For the purpose of observing the privacy of their admission and personal data, it is imperative that the applicants do not disclose their login number and password to anybody else as these will be used to access the On-line Application System for application, the Admission Examination permit, Admission Examination results, offer letter, debit notes for tuition fees and registration information for new students.

8.1.4 If applicants fail to receive the email within 2 days, please contact the Registry.

### 8.2 Change of information

8.2.1 Upon registration as a new user, applicants of Admission Examination can update any information as well as programme choice whether or not the applicant has submitted his/her application or paid the application fee.

8.2.2 No further revision or change of programme choice may be accepted after 23:59 on the date of the application deadline.

8.2.3 No further revision of programme choice or application information/documents can be accepted for Direct Admission applicants after the application fee has been settled.

### 8.3 Application documents format

8.3.1 Applicants must scan and upload the following documents to the On-line Application System:

8.3.1.1 Identification document (both sides on one A4 paper in PDF format);

8.3.1.2 Photo (only applicable for Direct Admission applicants; passport size photo in JPEG/GIF/PNG format preferably in JPEG file with 300dpi, with no border and white background);

8.3.1.3 Required academic documents. Documents to be uploaded in each field can be more than one page. Please scan all pages continuously in black & white colour format and save them in a

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single PDF file (less than 5MB) before uploading.

8.3.1.4 Total size for all uploaded documents should not be greater than 10MB.

8.3.2 All application documents must be submitted within the application period. Otherwise, the application will not be processed.

8.3.3 The University reserves the right to request the applicant to provide proof and related academic documents for admission. The University also reserves the right to verify the documents submitted.

8.3.4 If the academic documents provided are not in Chinese/English/Portuguese, applicants must submit an English version of certificate(s)/testimonial(s) and academic transcript(s) issued by the respective university/institution. Applicants may also submit translated English certified true copies of the documents.

#### 8.4 Application number

8.4.1 After the application fee is settled, an acknowledgment email with an application number (format: AP-C5-XXXX-X) will be sent to the applicant by SMS message and email. The on-line application is complete upon receipt of this application number.

8.4.2 If the applicant do not receive any acknowledgment by SMS or email 2 days after fee payment, please contact the Registry.

### 9. New Student Registration

9.1 All new students must complete the registration in person by submitting required academic documents and medical reports to validate qualifications and health condition fit for admission. Students who have not completed registration will not be able to enroll courses or attend class.

9.2 Students who cannot complete registration in accordance with assigned schedules may submit a request, supported by proof, to the Registry for late registration. The application result will be notified by email. Students who request for late registration must settle the fees such as Residential College Cost and Security Deposit within the dates specified.

9.3 New students must complete registration no later than 2 weeks prior to class commencement. Otherwise, the offer of admission will be cancelled. The tuition fee paid and other fees will not be refunded except for those situations referred to item 12.

### 10. Fees

Applicants should visit to the website <https://reg.um.edu.mo/admissions> for details of tuition fee and residential college cost of 2025/2026.

### 11. Termination of Application or Study

11.1 The University reserves the right to terminate any application, offer, scholarship, registration, study and revoke the degree:

11.1.1 that is found to include and provide untrue and/or incorrect information that would

affect the qualification requirements stipulated by the University; or

11.1.2 that contains forged academic or related documents; or

11.1.3 where the applicant displays any misconduct or misbehaviour during the admission or examination process.

11.2 Should any of the above cases occur, the applicant should take full responsibility for all consequences.

11.3 In consideration of adequate utilization of admission quota, if an applicant has accepted our undergraduate admission offer but still accepts another offer by other admission channels, the University reserves the right to terminate his/her admission.

11.4 For disqualified applications, all documents submitted and fees paid will not be returned or refunded.

11.5 For applicants found to have provided any untrue or incorrect application, the University reserves the right to reject his/her application thereafter.

## **12. Cancellation of Programmes and Fees Refund**

12.1 The University reserves the right not to offer any programmes, or to suspend student intake temporarily, if supervening conditions require.

12.2 In case of programme cancellation, the tuition fees and related fees paid (except application fee) will be refunded.

12.3 Nevertheless, if an offered student cannot successfully complete the Form 6 study and fails to meet the University's entrance requirement, the student may apply for refund of tuition fees and related fees in accordance with the university's rules. The student should submit support documents to the Registry for such application.

## **13. Deferment of Study**

13.1 Non-registered new students can apply for deferment of study for no more than one academic year. Such applications will only be permitted for medical reasons and students are required to submit latest medical certificates issued by hospitals to prove that he/she is not suitable for admission. Application for deferment should be made before the specified date.

13.2 Non-registered new students must fulfil all the conditions stated in their offer letter and settle the tuition fee before they can become eligible to apply for deferment of study. The deadline for deferment application will be 2 weeks prior to class commencement.

13.3 Non-registered new students are not permitted to transfer to another major/programme when they apply for resumption of study.

## **14. Credit Transfer and Course Exemption**

According to the "Regulations of the Programmes of the University of Macau", credits obtained by completing the courses of degree programmes at other higher education institutions may be transferred through application for course exemption after students

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have been admitted to University of Macau programmes. The limit on the number of credits that can be transferred to a University of Macau programme is one-third of the total credits required to complete the programme of study.

Appendix

**Joint Admission Examination (JAE) for  
Macao Four Higher Education Institutions  
(Subjects: Languages and Mathematics)**

**1. Introduction**

Four higher education institutions of Macao namely the University of Macau, Macao Polytechnic University, Macao University of Tourism and Macau University of Science and Technology (hereinafter referred to as “the Four Institutions”) jointly implement the “Joint Admission Examination for Macao Four Higher Education Institutions (Subjects: Languages and Mathematics)” (hereinafter referred to as “JAE”). JAE refers to the admission examinations on four subjects, namely Chinese, Portuguese, English and Mathematics jointly organised by the Four Institutions. Any written examination or interview for subjects other than these four subjects shall be arranged and announced by the Four Institutions individually.

The Four Institutions shall admit students according to their own admission criteria. Candidates are advised to check the rules/regulations of relevant institution for the corresponding admission requirements for individual programmes. As JAE is not a unified examination, there is no centralized allocation. Candidates may be admitted by multiple institutions for their higher education choices.

**2. JAE Subjects and Timetable**

Due to different examination requirements needed for the degree programmes by the Four Institutions, candidates should refer to the relevant institution for the admission requirements of the programme(s) they wish to apply to before the application.

Examination Date	Examination Time	Subject & Code	Scope & Type of Question
13/03/2025 (Thursday)	18:00-20:30 (2.5 hours)	Portuguese Paper A (JP01)	Reading comprehension (35%), Language use (30%), Composition (35%)
14/03/2025 (Friday)	18:00-20:00 (2 hours)	Portuguese Paper B (JP02)	Reading comprehension (40%), Language use (40%), Composition (20%)
15/03/2025 (Saturday)	15:30-17:30 (2 hours)	Chinese (JC01)	Knowledge of language (40%), Reading literacy (20%), Composition (40%)
16/03/2025 (Sunday)	10:00-12:00 (2 hours)	English (JE01)	Language use (40%), Reading comprehension (30%), Composition (30%)
16/03/2025 (Sunday)	15:30-17:30 (2 hours)	Mathematics Standard Paper (JM01)	Multiple choice (60%), Questions (40%)
16/03/2025 (Sunday)	18:00-19:00 (1 hour)	Mathematics Supplementary Paper (JM02)	Questions

**3. Eligibility of Candidates**

JAE candidates must fulfil one of the following criteria:

- 3.1 Completed secondary education (Form 6 graduate) or equivalent, or
- 3.2 Currently attending Form 6 or equivalent, or
- 3.3 Aged 23 or above on 1 September 2025 with special talent but without the above required qualifications.

#### **4 Result Release and Admission Criteria**

- 4.1 Candidates can check their examination results from the online application system of the institution they have applied to in early May 2025.
- 4.2 According to the admission requirement and quota of each programme, the Four Institutions will base on JAE results, other necessary admission assessment (if any) and interview (if any) for the selection process.
- 4.3 The admission results of candidates will be individually released by the Four Institutions via their admission webpage.

#### **5 Exemption from Taking Particular Subject of the JAE**

- 5.1 Owing to different exemption criteria of each institution, candidates should refer to the applied institution(s) for the respective exemption criteria of each JAE subject.
- 5.2 If candidates wish to apply for exemption of certain JAE subject, they must abide by the application period and regulations established by the relevant institution.

#### **6 Special Examination Arrangements for Students with Disabilities**

- 6.1 To provide an equal admission opportunity, students with disabilities can apply for special examination arrangements, e.g. extension of the examination time, arrangement of a separate examination room, using the computers provided for answering the questions, etc. The application of special examination arrangements will be assessed and approved by the Assessment Committee.
- 6.2 Applicants are required to submit the following documents to Macao University of Tourism (Mong-Há Campus) one month prior to the yearly JAE application deadline (i.e. before 31 December in the year preceding the examination):
  - 6.2.1 A completed "Application Form of Special Examination Arrangements for Students with Disabilities" of the JAE;
  - 6.2.2 An assessment report and other relevant diagnosis documents / proof issued by a registered medical practitioner in Macao, such as the "Disability Assessment Registration Card" issued by the Social Welfare Bureau of Macao SAR.
- 6.3 Detailed information on "Special Examination Arrangements for Students with Disabilities for Joint Admission Examination for Macao Four Higher Education Institutions (Subjects: Languages and Mathematics)" can be downloaded from the webpages of the Four Institutions.

#### **7 2025 JAE Important Dates**

Event	Date
Application Deadline for Special Examination Arrangement of the Students with Disabilities	31 December 2024
2025 Application Period of the Four Institutions	02 – 16 January 2025
Issuance of JAE Examination Permit	05 – 16 March 2025
JAE Examination	13 – 16 March 2025
JAE Result Release and Announcement of the Admission Offer by the Four Institutions	Early May 2025
Application for Rechecking of JAE Results	To be announced upon release of JAE result



# **Academic Regulations and Rules**

# Regulations of the Programmes of the University of Macau

(Approved by the University Council on 23 April 2019)

## **Article 1 Academic Year**

An academic year covers the period from August to July. Each year consists of two semesters, plus an optional intensive summer term.

## **Article 2 Medium of Instruction**

The mediums of instruction are English, Chinese and Portuguese, with English as the main medium of instruction.

## **Article 3 Programme Operation**

1. Bachelor's Degree Programmes
  - 1) The normal period of study is four years;
  - 2) The minimum credit requirement for graduation is 120 credits.
2. Master's Degree Programmes
  - 1) An applicant of a master's degree programme must possess a bachelor's degree or academic background recognized as equivalent by the University of Macau. An applicant may also be required to possess other knowledge or professional experience.
  - 2) Programme duration:
    - (1) The programme duration is at least 18 months.
    - (2) The minimum period of coursework study is normally 12 months and the maximum period is 24 months.
  - 3) Modes of study:

In accordance with the study plan and relevant regulations, a student must complete the required courses and complete one of the following modes:

    - (1) to write an academic thesis and to pass a public oral defence;
    - (2) to write a project report
    - (3) to attend approved professional internship and to submit an intern report.

The period for the completion of the academic thesis, project report or intern report is normally six months.
  - 4) An examination committee proposed by the academic unit concerned and approved by the Senate is responsible for the assessment of the thesis and oral defence.
3. Doctoral Degree Programmes
  - 1) Doctor of Philosophy (PhD) Programmes
    - (1) An applicant of a PhD programme must possess a master's degree or academic background recognized as equivalent by the University of Macau or a bachelor's degree with outstanding academic results;
    - (2) The programme duration is normally three years;

- (3) PhD programmes are research-based programmes. A PhD student is required to write and submit a thesis which makes an original contribution to the knowledge or professional discipline concerned, and to pass a public oral defence;
  - (4) The academic unit may require students to complete specific courses as part of the admission requirements;
  - (5) An examination committee proposed by the academic unit concerned and approved by the Senate is responsible for the assessment of the thesis and oral defence.
- 2) Other Doctoral Degree Programmes
  - (1) An applicant of other doctoral degree programme must possess a master's degree or academic background recognized as equivalent by the University of Macau or a bachelor's degree with outstanding academic results, as well as, substantial experience at a senior management/business level;
  - (2) The programme duration is normally three years;
  - (3) The programmes involve coursework, a thesis and public oral defence.
4. Other Programmes  
 All academic units of the University of Macau may offer other degree, diploma and certificate programmes. The programme operation must be consistent with the University of Macau rules concerned.

#### **Article 4 Students' Application and Registration**

1. Students must fulfil the admission requirements stated in the rules concerned or pass the related examinations when applying for admission to different programmes of the University.
2. All students admitted to the University of Macau will be considered as registered students upon payment of tuition fees and submission of all required documents set by the University of Macau within the specified period. All returning students will be considered as registered students upon payment of tuition fees and other fees set by the University of Macau within the specified period.
3. Registration records of undergraduates and postgraduates are managed by the Registry and the Graduate School respectively.

#### **Article 5 Student Records**

1. Student records include status records and academic records.
2. Student records of undergraduates and postgraduates are managed by the Registry and the Graduate School respectively.

#### **Article 6 Transfer from Other Universities**

1. Students of other universities transferring to the University of Macau must fulfil the conditions and requirements stated in the Admission Rules before they are admitted to the University of Macau.

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2. Students must withdraw from their original universities before transferring to the University of Macau.

#### **Article 7** **Credit Transfer**

1. Credits obtained by completing the courses of degree programmes at any tertiary education institutions may be transferred after students have been admitted to programmes of the University of Macau.
2. The normal limit on the number of credits that can be transferred to a programme of the University of Macau is one-third of the total credits required to complete the programme of study.

#### **Article 8** **Rules**

The University of Macau shall formulate and approve the relevant internal rules in accordance with this Regulations and other applicable legislation.

## ACADEMIC REGULATIONS AND RULES

# General Rules Governing PhD and Other Doctoral Degree Programmes

(Approved by the Rector on 24 May 2025)

## A. ADMISSION

1. Admission is governed by the University Admission Rules (GRS.09-4/201602/050). Applicants must satisfy the University admission requirements, and any additional requirements imposed by the academic unit they intend to enter.
2. Students should not enrol/register in any other universities upon registration at UM.
3. A student of the University is required to observe the General Rules, and those rules and procedures which govern admission requirements, examinations, fees and charges.

## B. GENERAL

1. The University offers full-time programmes of study leading to the degrees of Doctor of Philosophy (PhD) and other doctoral degree including Doctor of Business Administration, Doctor of Education, Doctor of Public Administration, Doctor of Fine Arts, Doctor of Public Health, Doctor of Design or such other degrees approved by the University authority.
2. PhD programmes are research-based programmes. Other doctoral degree programmes are professional programmes requiring students with substantial experience at a senior management or business level.
3. Students will be awarded a PhD or other doctoral degree provided that they have:
  - a. completed the coursework as stated in the curriculum of the degree;
  - b. passed the prescribed assessments stated in Section O;
  - c. fulfilled other coursework requirements set by the academic unit;
  - d. written a thesis and passed the oral defence;
  - e. paid the prescribed fees;
  - f. fulfilled the requirements of the regulations and rules of the University.
4. Each individual academic unit may issue special rules applying to specific PhD and other doctoral degree programmes, within the general framework of the present General Rules. However, any standard for qualification requirements, performance of candidates and/or else, as provided for in the present General Rules, may not be set to a lower or less strict level by the special rules issued for any programme by the relevant academic unit.
5. Students must register in a programme of study on the specified dates in any one academic year, with compulsory attendance at classes.
6. The maximum period of studies will be 150% of the normative period of the programme. For working students, it will be two times the normative period of studies. Less than 1 academic year will be counted towards 1 academic year. Students who cannot complete the programme within the periods above will be required to discontinue their studies.

## C. ACADEMIC YEAR

An academic year covers the period from August to July. Each year consists of two semesters. Each semester consists of approximately seventeen weeks of scheduled classes, including examinations.

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#### **D. REGISTRATION**

1. New students will be considered registered students upon completion and submission of all registration materials to the Graduate School with tuition fees settled, while returning students will be considered registered students upon settlement of tuition fees.
2. A student must register in the name which appears in his/her personal identification documents.
3. Student Cards
  - a. All students will be issued with student cards (UM Campus Card).
  - b. The student card is a student's personal identification document. It is not transferable.
  - c. In case of loss or damage of a student card, a student should apply for a replacement by submitting an application form to the Graduate School. A card replacement fee will be charged to the student.
  - d. Students may refer to the "Rules Governing the Use of UM Campus Card" for further details.
4. Late Registration
  - a. Students may apply for late registration if they cannot complete the process within the scheduled period. Application form for late registration should be submitted to the Graduate School at least three working days before the scheduled registration period.
  - b. Late registration fees will be charged to students who do not apply for late registration three working days before the scheduled registration period. Students who have applied for late registration but failed to complete the process within the approved period will also be charged a late registration fee.
  - c. Late registration can be considered once only and cannot be later than the end of the add/drop period.
  - d. If late registration is anticipated for medical reasons, a medical certificate should be attached to the student's application for late registration. Applications for registration later than the end of the add/drop period will not be accepted.
  - e. In any case, students must also make sure that they will still be able to enrol in either course work or thesis in the semester that they register. Otherwise, they will not be considered as an active student and will have to defer their studies.
  - f. The admission offer for students who fail to complete the required registration procedures by the designated deadline will be invalidated.
  - g. Students will not be entitled to register if the tuition fees have not been settled.
5. Students with insufficient academic background may be considered and will be given provisional status. Students admitted under provisional status have to complete the additional courses required when they were admitted. Students passing their provisional status should be endorsed by the Dean/Director of the academic unit concerned and approved by the Dean of Graduate School, before becoming eligible for the qualifying examination for PhD students or thesis proposal assessment for students in other doctoral degree programmes.

#### **E. CREDIT AND COURSE LOAD**

A credit unit is equal to one lecture hour per week for one semester. One session (2 to 3 hours) per week of laboratory or practice work for one semester can also be counted as one credit unit.

#### **F. COURSE RETAKE**

Students may apply for retaking a course. The student should obtain the consent of the Dean/Director of the academic unit concerned by securing required signatures. All applications must be approved and the courses to be retaken must be enrolled before the deadline of the

add/drop period. The fees for retaking any courses are calculated based on the number of credits of the retake course. For non-credit bearing course, the retake fees shall be one credit.

If a student retakes a course, only the course grade for the latest attempt will appear on the student's transcript.

## **G. COURSEWORK AND COURSE ENROLMENT**

1. All students should complete the required coursework. All courses should be completed before the oral defence. A student who does not pass a compulsory course in a second attempt may be required to discontinue his or her studies.
2. Except under special circumstances as approved by the Dean/Director of the academic unit concerned, students are advised to follow the study plan specified by the programme in which they have enrolled. It should be noted that no substitutions are allowed under any circumstances for compulsory courses.
3. The courses offered by any academic unit are normally open to students enrolled in that unit and to students enrolled in other academic units either as electives permitted by, or as requirements set by, those academic units.
4. A student shall not be allowed to take courses with conflicting time schedules.
5. Students will not be entitled for enrolment or course add/drop if there is any outstanding tuition fee.
6. **On-line Enrolment**  
During the enrolment period, students of specified programmes of studies will enrol course on-line. Students who are not able to enrol on-line during the specified period may complete the process manually.
7. **Course Add/Drop**
  - a. Students may make changes to their enrolment records during the course add/drop period. Requests for adding or dropping courses other than the add/drop period should be approved by the Dean/Director of the academic unit concerned.
  - b. Adding a new course depends on the availability of section quota.
  - c. A student who drops a course without going through the prescribed procedure will be given a failing grade, "F" or "NP" for that course.
8. **Withdrawal from Individual Courses**  
Students may withdraw from an individual course after the course add/drop period on condition that he/she still has at least one course (including doctoral thesis) enrolled after the course is withdrawn. When students wish to withdraw from a course after the add/drop period, they should complete and submit an application form to the Graduate School at least 5 working days before the final examination. A "W" grade will be given to the withdrawn course and the tuition fee for the withdrawn course will not be refunded. Any application submitted after the aforementioned deadline will not be considered.
9. Students should always look carefully at their enrolment records. If they are not sure if their enrolment records are correct, they may seek advice from the academic unit concerned. Students are responsible for following up any updates, errors or omissions.
10. **Study Plan**  
A study plan is a guide to what students have to accomplish in order to complete their programme of studies. Students are advised to consult their study plans during selection of courses for enrolment. They should keep their study plans and any subsequent adjustments for future reference during course enrolment and for graduation purposes.

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## 11. Course Designations

- a. Courses specified in the postgraduate programmes are designated as Compulsory Major course, Required Elective or Free Elective.
- b. Compulsory Major courses must be taken in the semester indicated. A student who fails a Compulsory Major course is required to retake that course.
- c. Required Electives are courses chosen by the student but within a group of courses designed for this purpose by the programme. Required Electives may be taken at other times. A student who fails a Required Elective will be required to either retake the same course or take another course within the same group.
- d. Free Electives are selected by the student in areas inside or outside the major as designated in the curriculum, subject to the academic unit's approval. A student who fails a Free Elective will not be required to retake the course. Such students may take another course to fulfill graduation requirements. Within individual programmes, some courses may not be considered Free Electives.

## H. COURSE EXEMPTION

1. Students who have completed equivalent or convertible courses in any tertiary education institutions may apply for course exemption to the academic unit concerned by the last day of course add/drop period each semester. In the case of course exemption, credits will be granted to replace the original UM course. Exempted courses will be assigned a grade "X" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.

Applications should be submitted to student's home academic unit and be accompanied by supporting documents, e.g. course outlines, official course descriptions, lecture hours, study plans, course grades etc., showing that the students have passed equivalent courses elsewhere.

2. Course exemption is only applicable to courses at the same degree level.
3. Course exemptions are considered valid only after they are endorsed by the head of department or programme coordinator of the course offering units, and the Dean/Director of the student's home academic unit, and then approved by the University's Senate.
4. The normal limit on the number of credits that can be transferred to a programme is one-third of the total credits required. This limit includes course exemptions as well as credits transferred to the new programme through transfer of programme (See the item Y – Transfer of Programme for details).
5. All exceptional cases are subject to the endorsement from the Dean/Director of the student's home academic unit and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

## I. COURSE WAIVER

1. Students who have not completed equivalent courses in other tertiary education institutions but have attained the knowledge and skills of specific UM courses may apply for a course waiver to the academic unit concerned by the last day of course add/drop period each semester. In the case of course waiver, no credits will be granted, and students will be required to take a related course approved by the head of department or programme coordinator to fulfill the credit requirement. Waived courses will be assigned a grade "CW" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.



Applications must be submitted to the student's home academic unit and be accompanied by an explanation for the waiver request and supporting documents (if any). Proof of the acquired competence is required.

2. Students may apply for course waiver for any courses.
3. Course waivers are considered valid only after they are endorsed by the head of department or programme coordinator of the course offering units, and the Dean/Director of the student's home academic unit, and then approved by the University's Senate.
4. All exceptional cases are subject to the endorsement from the Dean/Director of the student's home academic unit and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

#### J. ATTENDANCE REQUIREMENTS

1. According to item 2 of article 27 of the Higher Education Law (Law no. 10/2017), all the course instructors are required to take class attendance.
2. A student who cannot attend classes can apply for leave of absence to the course instructor. Permission for the leave of absence cannot be more than 50% of its scheduled teaching periods in the aggregate.
3. A student who is absent without applying for leave of absence from a course for more than 20% of its scheduled teaching periods in the aggregate will not be allowed to take the final examination and will receive a failing grade for that course.

#### K. GRADING SYSTEM

1. The below grading system is applicable to all academic units except the Faculty of Law:

Letter Grades	Grade Points	Percentage
A	4.0	93-100
A-	3.7	88-92
B+	3.3	83-87
B	3.0	78-82
B-	2.7	73-77
C+	2.3	68-72
C	2.0	63-67
C-	1.7	58-62
D+	1.3	53-57
D	1.0	50-52
F	0	Below 50

Letter grades are official grades. Grades other than F are passing grades.

2. For the Faculty of Law, 20-point scales are official grades. Scales at 10 or above are passing grades.
3. Other Grades

Grades	Definition	Remark
CW	Course Waiver	Assigned to a course that has been waived.
DX	Deferred	A temporary grade assigned to students who

Grades	Definition	Remark
	Result	are pending for (a) supplementary examination result or (b) final results due to justifiable reasons.
I	Incomplete	Used when work is necessarily delayed through no fault of the student, such as a medical issue. This grade must be converted to a regular grade by the commencement of the following semester; otherwise, it will be converted to "F".
NP	Fail	Given for a course where the results are not counted towards the GPA or SA.
P	Pass	
T	Audit	Assigned when an auditing student has completed, to the satisfaction of the instructor, the conditions established at registration as an auditing student.
W	Withdrawal	Assigned when a student has withdrawn from a course. The result will not be counted towards the GPA or SA.
X	Course Exempted	Assigned in the case of a course exemption.

#### **L. PERIOD OF STUDY**

The normative study period of all PhD programmes is 4 years while the normative study period of other doctoral degree programmes is 3 years.

#### **M. RESIDENCE REQUIREMENT**

Except students admitted in the joint programmes and students in other doctoral degree programmes, the normal residence period of a student is 3 years while the minimum residence period is 12 months. The residence requirement is part of the graduation requirement. Exceptional case is subject to the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

#### **N. RESEARCH SUPERVISION**

1. The Faculty/Institute Graduate Studies Committee will administer the appointments of supervisor, co-supervisor, temporary supervisor, mentor and Advisory Committee of a student in PhD or other doctoral degree programmes.
  - a. The supervisor has the primary responsibility for directing and advising a student throughout his/her study period, especially during the preparation of the thesis.
    - i. Supervisor(s) of a PhD student should be appointed at the admission of a student.
    - ii. Mentor of a student in other doctoral degree programmes should be appointed before the student can identify the supervisor. Once the supervisor is appointed, the mentor is not required.
  - b. The temporary supervisor has the primary responsibility for directing and advising a student during his/her supervision period.
    - i. The temporary supervisor of a PhD student should be appointed at the admission of a student if the student cannot identify the supervisor or the supervisor can no longer serve. The admission of PhD students with temporary supervisor should be considered as exceptional cases only. The temporary supervisor of a student in other doctoral degree programmes should be appointed if the supervisor can

- no longer serve.
- ii. The temporary supervisor can only supervise the student for at most one year. If the student cannot identify the supervisor within one year after his/her initial registration, he/she will be discontinued from the programme.
- c. The Advisory Committee of PhD or other doctoral degree programmes is intended to provide additional academic advice to the student during the coursework period, for the qualifying examination, and for the preparation of the thesis proposal.
  - i. Each newly admitted student will be assigned an Advisory Committee to provide guidance after his/her initial registration.
  - ii. Student should take additional course(s) advised by the supervisor.
  - iii. The Committee will also provide advice about the qualifying examination and the thesis proposal, the acceptability of the proposed thesis topic, the appropriateness of the proposed methodology, and the adequacy of the literature search. Upon approval of the student's thesis proposal, the Committee will advise the candidate about the preparation of the thesis and assist the supervisor, in monitoring the candidate's progress.
  - iv. The membership of the Advisory Committee should include the thesis supervisor, co-supervisor(s) (if any) and at least one member. The member(s), appointed by the Faculty/Institute Graduate Studies Committee, should represent academic disciplines relevant to the thesis topic. When appropriate, the member(s) may be selected from more than one faculty/institute. In addition, the member(s) may be appointed from outside UM if necessary.
2. The appointments of the supervisor, co-supervisor, temporary supervisor, mentor and Advisory Committee of a student in PhD or other doctoral degree programmes are officially approved by the Faculty/Institute Graduate Studies Committee.
3. Changes of the supervisor, co-supervisor, temporary supervisor, mentor and/or the membership of the Advisory Committee of a student in PhD or other doctoral degree programmes can be made upon the approval from the Faculty/Institute Graduate Studies Committee.
4. The supervisor, temporary supervisor or mentor must evaluate the progress report of the student required by the Rules on the Progress Report of the Postgraduate Programmes. The progress report will be reported to the University's Senate.

## **O. ASSESSMENTS**

1. Each PhD student must pass three assessments during his/her study. The three assessments include a qualifying examination, a thesis proposal assessment and a final thesis oral defence examination.
2. Each student in other doctoral degree programmes must pass a thesis proposal assessment and a final thesis oral defence examination during his/her study.
3. The qualifying examination and thesis proposal assessment are administrated by the Faculty/Institute Graduate Studies Committee.

## **P. QUALIFYING EXAMINATION**

1. The qualifying examination will assess the ability and background of the student for the enrolled PhD programme.
2. Each faculty/institute will define the form and operation procedures of the qualifying examination according to its own needs.

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3. A PhD student must pass the qualifying examination within 2 years after his/her initial registration. Academic units should inform the Graduate School on the following day a student passes the qualifying examination. Unless special approval of an extension of this period from Vice Rector (Academic Affairs) is granted, a student failing to pass the qualifying examination will be discontinued from the enrolled PhD programme. An application related to extension beyond the stipulated period to pass the qualifying examination is subject to the consideration of Faculty/Institute Graduate Studies Committee, the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs).
  4. A PhD student who fails the qualifying examination on the first attempt may take the examination again. If the student fails the examination a second time, his/her study will be discontinued from the relevant PhD programme.

**Q. THESIS PROPOSAL ASSESSMENT**

1. The thesis proposal assessment will examine the quality of the planned research, ensuring that it meets UM standards.
2. The thesis proposal assessment may be carried out simultaneously with the qualifying examination or afterwards.
3. The thesis proposal assessment will include submission of a written proposal from the student and its presentation to an assessment panel. The assessment panel will include a chairperson appointed by the Faculty/Institute Graduate Studies Committee (this chairperson should not be a member of the Advisory Committee), along with the Advisory Committee members. A student who fails the thesis proposal assessment the first time may take the assessment again. If the student fails the assessment a second time, his/her study will be discontinued from the enrolled programme.
4. A PhD student who passes the thesis proposal assessment will be considered as a PhD candidate at the University of Macau.
5. The Faculty/Institute Graduate Studies Committee will administer the thesis proposal assessment. For PhD student, academic unit will submit the passed and fully revised thesis proposal together with the names of the student, supervisor(s) and the assessment panel to the Graduate School for official approval of PhD candidacy. For student in other doctoral degree programmes, academic unit should inform the Graduate School once a student passes the thesis proposal assessment.
6. A PhD student must achieve PhD candidacy within 3 years after his/her initial registration at the University of Macau by passing the qualifying examination and thesis proposal assessment. A student in other doctoral degree programmes must pass the thesis proposal assessment within 2.5 years after his/her initial registration at the University of Macau. The maximum period for achieving the PhD candidacy or passing the thesis proposal assessment will not be extended in general. A student who cannot achieve PhD candidacy or pass the thesis proposal assessment as governed by the above term will be discontinued from the enrolled programme.
7. A student who would like to extend his/her study period to achieve PhD candidacy or pass the thesis proposal assessment should submit the application form with the justified reason(s) endorsed by the supervisor before the end of the study period to the academic unit concerned. The application is subject to the consideration of Faculty/Institute Graduate Studies Committee, the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs).

**R. THESIS FORMAT, SUBMISSION AND PUBLICATION**

1. Candidates are advised to study thoroughly and follow strictly the Guidelines Governing the Format of Theses of PhD and Other Doctoral Degree Programmes when writing their thesis. Candidates may refer to the Graduate School's homepage (<https://grs.um.edu.mo/>) for details of the said Guidelines.
2. Before a candidate submits a thesis for examination, he/she shall pass one copy of the thesis to the supervisor(s) for assessment. If the supervisor(s) confirm(s) that the thesis is ready for submission, a "thesis submission" form should be completed as endorsement.
3. A candidate shall submit five copies of his/her thesis, together with the "thesis submission" form, to the academic unit concerned. The thesis shall conform in layout, binding and presentation as required by the academic unit concerned.
4. The examination committee shall declare in writing to accept/reject the thesis.
5. If a thesis is rejected by the examination committee, the candidate shall re-submit the thesis following the above mentioned thesis submission procedures within the period as decided by the examination committee. The re-submission deadline shall not exceed the maximum period of study. A candidate shall only re-submit the thesis once only.
6. A candidate must submit properly bound copies of the final version of the thesis approved by the examination committee upon successful completion of the oral defence examination. The exact number of copies of thesis and the submission deadline will be specified by the academic unit concerned.
7. To ensure a uniform appearance of the theses of the PhD and other doctoral degree programmes, the bound Library copy must be first sent to the academic unit concerned for checking before it will be finally housed in the Library.
8. A candidate must also submit a soft copy of the said thesis to the academic unit concerned for onward transmission to the University Library, in ways and format as determined by the University Library.
9. All theses will be published with the ProQuest UMI Dissertation Publishing. Exceptions would be allowed for special cases with sound justification and proper approval. The University Library will process the thesis publication procedures with the UMI.

**S. FORMATION OF ORAL DEFENCE EXAMINATION COMMITTEE**

1. After the candidate has submitted the thesis to the academic unit concerned, the Academic Council of the academic unit shall decide whether to submit a proposal for the examination committee to the Rector for approval.
2. The candidate shall normally be informed of the official composition of the examination committee after the official appointment.
3. The examination committee shall be chaired by the Rector, or his/her delegated Vice Rector, Full Professors, Distinguished Professors or Chair Professors who have been the supervisor of at least three PhD students who have successfully graduated.
4. The examination committee shall be composed of the supervisor and at least three examiners, one of whom must be from non-Macau academic institution.
5. The examination committee shall be composed of at least three members who have completed a graduate degree at doctoral level in the relevant discipline.

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6. The oral defence examination should take place in accordance with the Procedures for Formation of the Oral Defence Examination Committees of PhD and Other Doctoral Degree Programmes.
  7. Within 60 days after the announcement of the composition of the examination committee, the examination committee shall declare in writing to accept the thesis or recommend its revision to the candidate with supporting reasons.
  8. In the case of thesis revision, the candidate shall revise the thesis or declare to maintain it unchanged as presented within 120 days. The period cannot be extended.
  9. If the candidate does not submit the revised thesis nor declare waiving the revision within the said period, he/she shall be considered to have given up the oral defence examination. The examination committee is dismissed.

## **T. ORAL DEFENCE EXAMINATION**

1. The oral defence examination shall be held normally within 60 days after:
  - a. The day on which the thesis is officially accepted by the examination committee for oral defence examination.
  - b. The day on which the thesis revision or the declaration waiving the revisions is submitted.
2. The academic unit concerned shall give the candidate at least one week's notice of the date of oral defence examination.
3. The oral defence examination is an open examination. The candidate shall present the thesis and defend it in front of an examination committee.
4. Prior to the oral defence examination, the examination committee shall decide the speaking order and method of its members.
5. After the thesis presentation and the question and answer session, the examination committee shall discuss and evaluate the candidate's performance. By open ballot voting, the committee shall decide to go into the final resolution deliberation session.
6. Final Resolution Deliberation Session:
  - a. A resolution must be decided by majority vote and open ballot voting with supporting statements. No committee voting member can abstain from voting.
  - b. The final resolution of the oral defence examination shall be delivered as pass (P), conditional pass (CP) or fail (NP).
    - i. Pass with no revision: The candidate has to submit the final copy to academic unit within one week.
    - ii. Pass with minor revisions: Revised version to be assessed by supervisor(s) only / all Examination Committee Members. The candidate should complete the thesis revision as requested by the Examination Committee and submit the revised thesis with the "Confirmation of Thesis Revision" form to the academic unit within 3 months from the date of the oral defence examination. The above stated period can be extended with dean's recommendation and Vice Rector (Academic Affairs)'s approval.
    - iii. Conditional pass, subject to major revisions: The candidate has to take the oral defence examination again within a year.
    - iv. Fail: The candidate has to be discontinued from the PhD or other doctoral degree programme.
7. The academic unit concerned shall submit the graduation proposal to the Graduate

School for graduation check within one month after the final thesis is submitted to the academic unit.

8. The oral defence examination and the resolution-deliberation discussions must be put on record. A proposal for the award of degrees shall be submitted to the Senate for approval. The minutes of the oral defence examination shall record the voting results and comments on the oral defence.

#### **U. APPEAL AGAINST RESULTS**

No appeal against the final academic decision of an examination committee is permitted.

#### **V. TUITION FEE**

All students shall pay the tuition fees according to the tuition fee scheme of the admitted/resuming academic year and settle their tuition fees before the deadline set by the University.

#### **W. GRADUATION**

Graduation and Issue of Graduation Certificates

Upon successful completion of studies, thesis writing and oral defence and with the approval from the Senate, academic awards are conferred on students at a congregation.

Students eligible for academic awards for that particular year will be notified in writing of the details regarding the congregation, the collection of academic dress, and the award certificate.

The graduation certificate will be issued once only, as there will be no second printing. **Students are therefore strongly advised to ensure the safe-keeping of this important document.**

The University reserves the right to withhold conferment of an award on a student who has outstanding fees owed to the University, or who has otherwise failed to discharge all obligations towards the University.

#### **X. DISCONTINUATION OF STUDIES**

1. A student shall be required to discontinue studies under the following circumstances:
  - a. A student who has failed a compulsory course more than once.
  - b. A student who has failed a second qualifying examination.
  - c. A student who has failed a second thesis proposal assessment.
  - d. A student (under the temporary supervisor's supervision) who cannot identify the supervisor within 1 year.
  - e. A PhD student who cannot pass the qualifying examination within 2 years or achieve PhD candidacy within 3 years.
  - f. For other doctoral degree programmes, a student who cannot pass the thesis proposal assessment within 2.5 years.
  - g. A student who cannot complete his/her study within the maximum period of studies.
  - h. A student who has failed the oral defence examination.
  - i. A student who is graded "Unsatisfactory" twice in the progress report.
2. Students whose studies have been discontinued due to unsatisfactory academic performance or who have exceeded their maximum study period cannot register as a student of the University within the subsequent year (two semesters).

Discontinued students returning after one year (two semesters)

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For students who have been discontinued from their studies due to unsatisfactory academic performance, they should apply for re-admission and such application must be approved by the Vice Rector (Academic Affairs) with the recommendation from the Dean/Director of the academic unit concerned.

For students who have been discontinued from their studies by exceeding the maximum study duration, they should apply for regular admission as new students following all the procedures and rules for new students.

#### **Y. TRANSFER OF PROGRAMME**

1. Students cannot transfer programme/major. However, any special request is approved by the Dean/Director of the academic unit concerned of the programme/major transferred to.
2. **Course Transfer between Doctoral Degree Programmes**  
A maximum of one-third of the credits required for the new programme can be transferred from courses taken previously, including exempted courses. Transferred courses are considered valid only after being endorsed by the Dean/Director of the student's home academic unit and approved by the University's Senate.
3. **Transfer from Doctoral Degree Programmes to Master's Degree Programmes**  
A student who cannot manage to accomplish the PhD or other doctoral degree programmes can transfer to Master's degree programme. The application must be recommended by the principal supervisor, endorsed by the Faculty/Institute Graduate Studies Committee and approved by the Graduate School. Doctoral courses cannot be transferred to the Master's degree programmes. The Master's degree will be awarded provided that he/she has successfully completed all the graduation requirements of the relevant Master's degree programme.

#### **Z. DEFERMENT OF STUDY**

1. Application for deferment of study from a withdrawn or inactive student will not be considered. For definitions of withdrawn and inactive students, please refer to item AA and AC respectively.
2. Students who wish to postpone their studies should apply for deferment of study by submitting an online application to the Graduate School. The University does not guarantee such students that the degree programme/courses will remain constant after they return to the University.
3. Withdrawal grades will be recorded for each course at the time the student receives permission to defer. The grades are either "W", meaning that the student defers the study before the examination period, or "F", meaning that the student does not take the examinations but defers during or after the examination period. However, if a student defers the study after completing all the courses and examinations of a semester, all academic credits/grades are given for the courses taken in that semester.
4. Students can apply for deferment of study for not more than 2 semesters at one time. If students wish to prolong their deferment period, they should submit another application before class commencement of the next semester after they have reached the previously approved deferment period. The total approved period of deferment of study cannot accumulate to more than 6 semesters. Any exceptional cases are subject to the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs) via the Graduate School.



5. New students can apply for deferment of study for not more than one academic year. Application for such deferment should be made before class commencement. New students must fulfill all the conditions stated in their offer letters and submit the required amount of non-refundable deposit/tuition fees before they become eligible to apply for deferment of study. Such applications will only be permitted for medical reasons and exceptional cases with sound justification. For medical reasons, students are required to submit medical certificates issued by hospitals at the time of application. For exceptional cases with sound justification, students are required to specify the reason and submit written certification at the time of application.
6. Students who have deferred their studies and wish to return to the University should apply for resumption of study. Resumption is not granted automatically (See the item AD - Resumption/Re-admission of Study for details). Besides, new students are not permitted to transfer to another research area when they apply for resumption of study.
7. If students neither resume nor defer the studies before class commencement of the next semester after they have reached the previously approved deferment period, they will be considered having withdrawn from the University, and they have to apply for re-admission of study later if they wish to return to the University (See the item AD - Resumption/Re-admission of Study for details).

#### **AA. WITHDRAWAL FROM THE UNIVERSITY**

1. Students who wish to terminate their studies at the University prior to graduation should apply for withdrawal of study by submitting an online application to the Graduate School.
2. Withdrawal grades will be recorded for each course at the time the student receives permission to withdraw. The grades are either "W", meaning that the student withdraws from the University before the examination period, or "F", meaning that the student does not take the examinations but withdraws during or after the examination period. However, if a student withdraws from the University after completing all the courses and examinations of a semester, all academic credits/grades are given for the courses taken in that semester.
3. Students who withdraw from the University and later wish to return must apply for re-admission of study. Re-admission of study is not granted automatically and is with lower priority than resumption of study during application consideration subject to quota availability (See the item AD - Resumption/Re-admission of Study for details).

#### **AB. CHECK-OUT**

1. All withdrawn, suspended or discontinued students and those applying for deferment of study are required to complete the check-out procedures before leaving the University. Students are required to clear all outstanding matters with the department concerned.
2. All graduates are not required to come in person to the University to complete the check-out procedures. However, students who have any outstanding records must clear their records with the department concerned. Otherwise, certificates of graduation and other official documents will not be issued.
3. A student may authorise another person to process the check-out procedures by filling in Graduate School's official authorisation letter. I.D. copies of both parties must be submitted.
4. Students who withdraw voluntarily from the University sever their connection with the University.

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5. If students leave the University in the course of study without going through the check-out procedures, no official document (such as testimonial, transcript or graduation certificate) will be issued.

#### **AC. INACTIVE STUDENTS**

1. Students admitted or resuming in academic year 2013/2014 or before who do not settle their tuition fees (including continuation fee) ten calendar days after the commencement of classes in any semester will be considered inactive students.
2. Students admitted or resuming in academic year 2014/2015 onwards who do not enrol in any courses or do not settle their tuition fees ten calendar days after the payment deadline in any semester will be considered inactive students.
3. Students admitted in academic year 2016/2017 onwards who do not maintain at least 3 credits of enrolment per semester prior to the stage of extended thesis supervision will be considered inactive students.
4. Inactive students will be prohibited from attending classes, using any services or facilities of the University, and applying for any official documents. For students who become inactive from academic year 2015/2016 onwards, the maximum inactive duration is two semesters cumulatively. If inactive students wish to return to the University within the inactive duration, they must make up the check-out procedures and apply for re-admission of study. An administration fee will be charged for the late check-out procedures, and a re-admission fee based on the number of inactive semesters will be charged upon approval of re-admission. Please refer to "Fees and Other Charges" for the relevant fees. Re-admission of study is not granted automatically and is with lower priority than resumption of study during application consideration subject to quota availability. Also, inactive students are with lower priority than withdrawn students for re-admission (See the item AD - Resumption/Re-admission of Study for details).

#### **AD. RESUMPTION/RE-ADMISSION OF STUDY**

1. Students who have deferred their studies and wish to return to the University should apply for resumption of study, while withdrawn, discontinued or inactive students should apply for re-admission of study.
2. Students returning to the University either through resumption or re-admission can continue their study with all the previous academic records. However, the procedures for resumption and re-admission are different from each other and re-admission is with lower priority than resumption of study during application consideration subject to quota availability. Also, discontinued and inactive students are with lower priority than withdrawn students for re-admission.
3. It should be noted that the total duration for deferment of study, withdrawal of study, and inactive period should not exceed six semesters altogether, and the inactive period should not exceed two semesters independently. No resumption or re-admission of study will be considered if students cannot fulfill this duration requirement. Any exceptional cases are subject to the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

Students who cannot return to the University through resumption or re-admission have to apply for regular admission if they wish to study at the University afterwards and all the previous academic records will be expired.

4. Procedures for Resumption of Study

When students apply for resumption of study, they should submit written applications to the Graduate School before class commencement of a certain semester for the approval from the Dean/Director of the academic unit concerned. Any applications submitted on/after the first day of classes will be directly rejected by the Graduate School. The applicants must meet all the admission requirements prevailing at the time of resumption and successful applications will be effective in the specific semester required by the students.

In addition, all resuming students who have deferred their studies due to health issues are required to submit a Medical Examination Report to the Graduate School during the resumption process. This report is to prove that the student has recovered from the health issues and is capable of pursuing his/her studies at the University. If a student has already had a medical check-up within three months prior to resumption, he/she may submit a certified true copy of that medical report.

5. Procedures for Re-admission of Study

When withdrawn and inactive students apply for re-admission of study, they should submit written requests to the Graduate School for the approval from the Dean/Director of the academic unit concerned. For inactive students, they must make up the check-out procedures before applying for re-admission; however, they are not required to obtain approval from the Dean/Director of the academic unit concerned for the check-out. Also, an administration fee will be charged for the late check-out procedures, and a re-admission fee based on the number of inactive semesters will be charged upon approval of re-admission (Please refer to "Fees and Other Charges" for the relevant fees).

When discontinued students apply for re-admission of study, they should submit written requests to the Graduate School for the approval from the Vice Rector (Academic Affairs) with the recommendation from the Dean/Director of the academic unit concerned. All re-admission applications should be submitted to the Graduate School before class commencement of a certain semester and any applications submitted on/after the first day of classes will be directly rejected by the Graduate School. The applicants must meet all the admission requirements prevailing at the time of re-admission and successful applications will be effective in the following semester.

6. All resuming and re-admitted students should pay their tuition fees according to the tuition schemes of the resuming/re-admitted year and are required to check the study plan with the general office of the academic unit concerned.

**AE. CHANGE OF PERSONAL INFORMATION**

1. Students should inform the Graduate School immediately of any change of personal particulars entered in the students' registration records.
2. For changes of address (such as home address, postal address and email address) and contact numbers, requests may be sent through email. All current students can also directly change their addresses and contact numbers through the myUM (<https://myum.um.edu.mo>).
3. For changes of other personal particulars not mentioned above, students must submit an application form to the Graduate School in person with personal identification documents presented. Such application will not be accepted after graduation or withdrawal from the University.

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## **AF. CERTIFICATION**

### **1. Academic Transcripts and Testimonials**

- a. An academic transcript is a certification of a student's record of academic performance at the University and it shows the student's grades obtained in a programme up to the latest final examination taken. Students can apply for transcripts after the academic reports have been released. A testimonial is a certification of the student's present registration status with regard to his/her studies at the University.
- b. Students can apply for academic transcript or testimonial by submitting an application from to the Graduate School. The charge per copy may be found in "Fees and Other Charges". If students submit their applications by post in Macao, a cheque or cashier's order for the amount due should be enclosed. For overseas applicants, payment must be paid by either cashier's order or bank draft; an additional handling fee will be charged. Please refer to "Fees and Other Charges" for further details.
- c. To avoid delay, please remember that requests for transcripts by other parties must bear the student's authorisation before the Graduate School can process the requests. During examination and assessment periods, the issuing of transcripts may be suspended or delayed.
- d. The University reserves the right to withhold an academic transcript or a testimonial from a student who has outstanding fees owing to the University, or who has otherwise failed to discharge all obligations towards to the University.

### **2. Certified True Copy of Academic Documents**

Students may apply for certified true copies of academic documents issued by the University, such as graduation certificates and academic transcripts, by submitting an application form to the Graduate School. Please refer to "Fees and Other Charges" for the relevant charges. However, the Graduate School will provide a free service to students who apply for admission to the programmes offered by the University.

## **AG. ACADEMIC HONESTY**

Students should uphold the principle of academic integrity and pursue their studies with passion and honesty. They should avoid committing any act of academic dishonesty, including but not limited to cheating, fabrication, collusion and plagiarism. Plagiarism is a serious academic offence and the University shall penalize the student who is proved to have incorporated others' works as his/her own work according to the "[Student Disciplinary Regulations of the University of Macau](#)" (SAO.03/201406/100). Regarding the types and handling procedures of academic dishonesty, please refer to the "[Rules on Handling Student Academic Dishonesty](#)" (AAO-REG.04/201112/068).

## **Annex**

### **FEES AND CHARGES**

For details about fees and charges, please refer to the “Fees and Charges” section of the UM Academic Calendar or the homepage of the Treasury Section of the Finance Office (<https://fo.um.edu.mo/>).

### **IMPORTANT ANNOUNCEMENTS**

Notices such as important announcements, examination schedules or university activities will be posted on notice boards. There are also electronic bulletin boards, which display messages campus-wide and can be easily accessed through the campus computer network. In addition, the University sends important notices to students through SMS (short message service) or emails (university's accounts only). Students should check the campus notice-boards, electronic bulletin boards and university's email accounts to learn about University news and events.

# General Rules Governing Master's Degree & Postgraduate Certificate/Diploma Programmes

(Approved by the Rector on 24 May 2025)

Items marked with an asterisk \* are applicable to master's degree programmes only.

## A. ADMISSION

1. Admission is governed by the University Admission Rules (GRS.09-4/201602/000). Applicants must satisfy the University admission requirements, and any additional requirements imposed by the academic unit they intend to enter.
2. Students are normally admitted as "first-year students".
3. Students should not enrol/register in any other universities upon registration at UM.
4. A student of the University is required to observe the General Rules, and those rules and procedures which govern admission requirements, examinations, fees and charges.

## B. GENERAL

1. The University offers full-time programmes of study leading to the degrees of Master of Arts (MA), Master of Business Administration (MBA), Executive Master of Business Administration (EMBA), Master of Education (MEd), Master of Law (LLM), Master of Science (MSc), Master of Engineering (MEng), Master of Social Sciences (MSocSc), Master in Public Administration (MPA), Master of Philosophy (MPhil), Master of Fine Arts (MFA), Master of Design (MDes) or such other degrees approved by the University authority.
2. Students will be awarded a master's degree provided that they have:
  - a. completed the coursework as stated in the curriculum of the degree;
  - b. passed the required courses and one of the following options:
    - (1) to write a thesis and to pass a public oral defence;
    - (2) to write a project report;
    - (3) to attend approved professional internship and to submit a report;
  - c. paid the prescribed fees;
  - d. fulfilled the requirements of the regulations and rules of the University.
3. Each individual academic unit may issue special rules applying to specific master's degree and/or postgraduate certificate/diploma programmes, within the general framework of present General Rules. However, any standard for qualification requirements, performance of candidates and/or else, as provided for in present General Rules, may not be set to a lower or less strict level by the special rules issued for any programme by the relevant academic unit.
4. Students must register in a programme of study on the specified dates in any one academic year, with compulsory attendance at classes.
5. The maximum period of studies will be 150% of the normative period of the programme. For working students, it will be two times the normative period of studies. Less than 1 academic year will be counted towards 1 academic year. Students who cannot complete the programme within the periods above will be required to discontinue their studies.
6. Auditing students may study courses at any level subject to acceptance by the

appropriate academic authority. An auditing student can attend a course and participate in activities up to and including writing the final examination, but will receive a "T" grade. These courses may not lead to a degree but may be submitted to the academic unit concerned for consideration if the student wishes to convert to a degree-awarding programme.

### **C. ACADEMIC YEAR**

An academic year covers the period from August to July. Each year consists of two semesters. Each semester consists of approximately seventeen weeks of scheduled classes, including examinations.

### **D. REGISTRATION**

1. New students will be considered registered students upon completion and submission of all registration materials to the Graduate School with tuition fees settled, while returning students will be considered registered students upon settlement of tuition fees.
2. A student must register in the name which appears in his/her personal identification documents.
3. Student Cards
  - a. All students will be issued with student cards (UM Campus Card).
  - b. The student card is a student's personal identification document. It is not transferable.
  - c. In case of loss or damage of a student card, a student should apply for a replacement by submitting an application form to the Graduate School. A card replacement fee will be charged to the student.
  - d. Students may refer to the "Rules Governing the Use of UM Campus Card" for further details.
4. Late Registration
  - a. Students may apply for late registration if they cannot complete the process within the scheduled period. Application form for late registration should be submitted to the Graduate School at least three working days before the scheduled registration period.
  - b. Late registration fees will be charged to students who do not apply for late registration three working days before the scheduled registration period. Students who have applied for late registration but failed to complete the process within the approved period will also be charged a late registration fee.
  - c. Late registration can be considered once only and cannot be later than the end of the add/drop period.
  - d. If late registration is anticipated for medical reasons, a medical certificate should be attached to the student's application for late registration. Applications for registration later than the end of the add/drop period will not be accepted.
  - e. In any case, students must also make sure that they will still be able to enrol in either course work or thesis in the semester that they register. Otherwise, they will not be considered as an active student and will have to defer their studies.
  - f. The admission offer for students who fail to complete the required registration procedures by the designated deadline will be invalidated.
  - g. Students will not be entitled to register if the tuition fees have not been settled.

### **E. CREDIT AND COURSE LOAD**

The minimum number of credits for Master's degree programmes is 30. A credit unit is equal to one lecture hour per week for one semester. One session (2 to 3 hours) per week of laboratory or practice work for one semester can also be counted as one credit unit.

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## **F. COURSE RETAKE**

Students may apply for retaking a course. The student should obtain the consent of the Dean/Director of the academic unit concerned by securing required signatures. All applications must be approved and the courses to be retaken must be enrolled before the deadline of the add/drop period. The fees for retaking any courses are calculated based on the number of credits of the retake course. For non-credit bearing course, the retake fees shall be one credit.

If a student retakes a course, only the course grade for the latest attempt will appear on the student's transcript and will be included in the calculation of the GPA.

## **G. COURSE ENROLMENT**

1. Except under special circumstances as approved by the Dean/Director of the academic unit concerned, students are advised to follow the study plan specified by the programme in which they have enrolled. It should be noted that no substitutions are allowed under any circumstances for compulsory courses.
2. The courses offered by any academic unit are normally open to students enrolled in that unit and to students enrolled in other academic units either as electives permitted by, or as requirements set by, those academic units.
3. A student shall not be allowed to take courses with conflicting time schedules.
4. Students will not be entitled for enrolment or course add/drop if there is any outstanding tuition fee.
5. **On-line Enrolment**  
During the enrolment period, students of specified programmes of studies will enrol course on-line. Students who are not able to enrol on-line during the specified period may complete the process manually.
6. **Course Add/Drop**
  - a. Students may make changes to their enrolment records during the course add/drop period. Requests for adding or dropping courses other than the add/drop period should be approved by the Dean/Director of the academic unit concerned.
  - b. Adding a new course depends on the availability of section quota.
  - c. A student who drops a course without going through the prescribed procedure will be given a failing grade, "F" or "NP" for that course.
7. **Withdrawal from Individual Courses**  
Students may withdraw from an individual course after the course add/drop period on condition that he/she still has at least one course (including thesis) enrolled after the course is withdrawn. When students wish to withdraw from a course after the add/drop period, they should complete and submit an application form to the Graduate School at least 5 working days before the final examination. A "W" grade will be given to the withdrawn course and the tuition fee for the withdrawn course will not be refunded. Any application submitted after the aforementioned deadline will not be considered.
8. Students should always look carefully at their enrolment records. If they are not sure if their enrolment records are correct, they may seek advice from the academic unit concerned. Students are responsible for following up any updates, errors or omissions.
9. **Study Plan**  
A study plan is a guide to what students have to accomplish in order to complete their programme of studies. Students are advised to consult their study plans during selection of courses for enrolment. They should keep their study plans and any subsequent



adjustments for future reference during course enrolment and for graduation purposes.

10. **Course Designations**

- a. Courses specified in the postgraduate programmes are designated as Compulsory Major course, Required Elective or Free Elective.
- b. Compulsory Major courses must be taken in the semester indicated. A student who fails a Compulsory Major course is required to retake that course.
- c. Required Electives are courses chosen by the student but within a group of courses designed for this purpose by the programme. Required Electives may be taken at other times. A student who fails a Required Elective will be required to either retake the same course or take another course within the same group.
- d. Free Electives are selected by the student in areas inside or outside the major as designated in the curriculum, subject to the academic unit's approval. A student who fails a Free Elective will not be required to retake the course. Such students may take another course to fulfill graduation requirements. Within individual programmes, some courses may not be considered Free Electives.

**\*H. SUPERVISION**

1. The supervisor has the primary responsibility for directing and advising a student during his/her supervision period.
2. Mentor should be appointed before the student can identify the supervisor. Once the supervisor is appointed, the mentor is not required.
3. Changes of the supervisor and/or co-supervisor can be made upon the approval from the Faculty/Institute Graduate Studies Committee.
4. The supervisor or mentor must evaluate the progress report of the student required by the Rules on the Progress Report of the Postgraduate Programmes.

**I. TUITION FEE**

All students shall pay the tuition fees according to the tuition fee scheme of the admitted/resuming academic year and settle their tuition fees before the deadline set by the University.

**J. COURSE EXEMPTION**

1. Students who have completed equivalent or convertible courses in any tertiary education institutions may apply for course exemption to the academic unit concerned by the last day of course add/drop period each semester. In the case of course exemption, credits will be granted to replace the original UM course. Exempted courses will be assigned a grade "X" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.

Applications should be submitted to student's home academic unit and be accompanied by supporting documents, e.g. course outlines, official course descriptions, lecture hours, study plans, course grades etc., showing that the students have passed equivalent courses elsewhere.

2. Course exemption is only applicable to courses at the same degree level.
3. Course exemptions are considered valid only after they are endorsed by the head of department or programme coordinator of the course offering units, and the Dean/Director of the student's home academic unit, and then approved by the University's Senate.

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4. The normal limit on the number of credits that can be transferred to a programme is one-third of the total credits required. This limit includes course exemptions as well as credits transferred to the new programme through transfer of programme (See the item U – Transfer of Programme for details).
  5. All exceptional cases are subject to the endorsement from the Dean/Director of the student's home academic unit and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

#### **K. COURSE WAIVER**

1. Students who have not completed equivalent courses in other tertiary education institutions but have attained the knowledge and skills of specific UM courses may apply for a course waiver to the academic unit concerned by the last day of course add/drop period each semester. In the case of course waiver, no credits will be granted, and students will be required to take a related course approved by the head of department or programme coordinator to fulfill the credit requirement. Waived courses will be assigned a grade "CW" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.

Applications must be submitted to student's home academic unit and be accompanied by an explanation for the waiver request and supporting documents (if any). Proof of the acquired competence is required.

2. Students may apply for course waiver for any courses.
3. Course waivers are considered valid only after they are endorsed by the head of department or programme coordinator of the course offering units, and the Dean/Director of the student's home academic unit, and then approved by the University's Senate.
4. All exceptional cases are subject to the endorsement from the Dean/Director of the student's home academic unit and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

#### **L. ATTENDANCE REQUIREMENTS**

1. According to item 2 of article 27 of the Higher Education Law (Law no. 10/2017), all the course instructors are required to take class attendance.
2. A student who cannot attend classes can apply for leave of absence to the course instructor. Permission for the leave of absence cannot be more than 50% of its scheduled teaching periods in the aggregate.
3. A student who is absent without applying for leave of absence from a course for more than 20% of its scheduled teaching periods in the aggregate will not be allowed to take the final examination and will receive a failing grade for that course.

#### **M. EXAMINATION AND ASSESSMENT**

1. Coursework
  - a. A student will take course examinations, where each course will be examined or otherwise assessed at the end of the semester in which it is offered.
  - b. For medical or other compelling reasons, a student who is unable to sit for any course examination must apply in writing with a certificate signed by a registered medical practitioner at the earliest possible moment (but not later than seven calendar days after the examination concerned) to the academic unit for leave of absence.

- c. A student who is absent from any examination without permission will be given a failing grade for that examination.
- d. In some courses, assessment may be made otherwise than by examination when the programme of study so specifies.
- e. A student will be examined or assessed for every course he/she has registered for on the basis of his/her performance in that course. Criteria for examination or assessment may include one or any combination of the following: attendance, class-work, written assignments, laboratory work, field work, research papers, tests or examinations.

**\* 2. Thesis / Project Report / Internship and Report**

All courses should be completed before the oral defence or report presentation. A student who chooses the thesis option must submit a thesis proposal endorsed by his/her thesis supervisor with the approval of the Dean/Director of the academic unit concerned. The student shall be examined by examiners at an oral defence on the subject of the thesis and/or approved course of study and research.

**\*N. EXAMINATION COMMITTEE**

For student who chooses the project report / internship and report option:

1. The examination committee shall be composed of:
  - a. The supervisor;
  - b. One academic staff.
2. The approval of the formation of the examination committee for project report / internship and report shall be obtained from the Dean/Director of the academic unit concerned or his/her delegate.

For student who chooses the thesis option:

1. The formation of oral defence examination committee shall be proposed by the Academic Council, endorsed by the University's Senate and then approved by the Rector.
2. The candidate shall be informed of the official composition of the examination committee.
3. The examination committee shall be composed of:
  - a. Two suitably qualified members of academic staff from the specific area of the master's degree programme;
  - b. The thesis supervisor.
4. Within 30 days after notifying the candidate of the composition of the examination committee, the examination committee shall declare in writing to accept the thesis or recommend its revision to the candidate with supporting reasons.
5. In the case of thesis revision, the candidate shall revise the thesis or declare to maintain it unchanged as presented within 90 days.
6. If the candidate does not submit the revised thesis nor declare waiving the revision within the said period, he/she shall be considered to have given up the oral defence examination. The examination committee is dismissed.
7. A candidate must submit properly bound copies of the final version of the thesis approved by the examination committee upon successful completion of the oral defence examination. The exact number of copies of thesis and the submission deadline will be specified by the academic unit concerned. In addition, a candidate must also submit a soft copy of the said thesis to the academic unit concerned for onward transmission to the University Library, in ways and format as determined by the University Library.

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#### **\*O. ORAL DEFENCE EXAMINATION AND REPORT PRESENTATION**

For student who chooses the thesis option:

1. The oral defence examination shall take place within 60 days after:
  - a. The day on which the thesis is officially accepted; or
  - b. The day on which the thesis revision or the declaration waiving the revision is submitted.
2. The oral defence examination shall be held with the presence of at least three members of the examination committee, one of whom must be the thesis supervisor.
3. The oral defence examination shall not exceed 90 minutes, during which the examination committee members can join in discussion.
4. When the oral defence examination is completed, the examination committee members shall meet to assess the examination and set out a deliberation on the candidate's final classification by open ballot, with supporting reasons. No abstention is permitted.
5. A resolution must be decided by majority vote. The chairperson of the examination committee has the deciding vote when there is a tie.
6. The final resolution shall be delivered in the form of pass "P", conditional pass "CP" or fail "NP".
7. The proposal for the award of degrees shall be submitted to the Senate for approval. The minutes of the oral defence examination shall be submitted together with the proposal and shall record the voting results and comments on the oral defence.

Final Resolution Deliberation Session:

1. The final resolution of the oral defence examination and report presentation shall be delivered as pass (P), conditional pass (CP) or fail (NP).
  - i. Pass (P) with no revision: The final resolution should be submitted to the academic unit concerned to prepare for the student's graduation.
  - ii. Pass (P) with minor revisions: Revised version to be assessed by supervisor(s) only. The candidate should complete the revision as requested by the Examination Committee within 3 months from the date of the oral defence examination / report presentation or unless otherwise specified, nevertheless, the revision should be completed within his/her maximum period of studies. When the supervisor accepts the revision, the acceptance should be indicated in the final resolution form and the final resolution should then be submitted to the academic unit concerned to prepare for the student's graduation.
  - iii. Conditional pass (CP), subject to major revisions: The candidate has to significantly revise the thesis / report and to take the oral defence examination / report presentation again within his/her maximum period of studies.
  - iv. Fail (NP): The candidate has to be discontinued from the enrolled programme.

#### **P. GRADING SYSTEM**

1. The below grading system is applicable to all academic units except the Faculty of Law:

Letter Grades	Grade Points	Percentage
A	4.0	93-100
A-	3.7	88-92
B+	3.3	83-87
B	3.0	78-82
B-	2.7	73-77

Letter Grades	Grade Points	Percentage
C+	2.3	68-72
C	2.0	63-67
C-	1.7	58-62
D+	1.3	53-57
D	1.0	50-52
F	0	Below 50

Letter grades are official grades. Grade points are used for the purpose of calculating the GPA. Grades other than F are passing grades.

- For the Faculty of Law, 20-point scales are official grades. Scales at 10 or above are passing grades.
- Other Grades

Grades	Definition	Remark
CW	Course Waiver	Assigned to a course that has been waived.
DX	Deferred Result	A temporary grade assigned to students who are pending for (a) supplementary examination results or (b) final results due to justifiable reasons approved by the head of the course offering units.
I	Incomplete	Used when work is necessarily delayed through no fault of the student, such as a medical issue. This grade must be converted to a regular grade by the commencement of the following semester; otherwise, it will be converted to "F".
NP	Fail	Given for a course where the results are not counted towards the GPA or SA.
P	Pass	
T	Audit	Assigned when an auditing student has completed, to the satisfaction of the instructor, the conditions established at registration as an auditing student.
W	Withdrawal	Assigned when a student has withdrawn from a course. The result will not be counted towards the GPA or SA.
X	Course Exempted	Assigned in the case of a course exemption.

#### Q. GRADE POINT AVERAGE (GPA)

- Semester GPA – This is a figure ranging from 0 to 4.0 (A=4.0) used to indicate the average performance of a student in the semester concerned.
  - Semester GPA:  

$$\frac{\text{Total weighted points of all courses taken in the semester concerned}}{\text{Total number of credits enrolled in the semester concerned}}$$
  - Weighted points:  
Grade points x the number of credits of the course concerned
- Cumulative GPA – This is a figure ranging from 0 to 4.0 (A=4.0) used to indicate the

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overall performance of a student in all the semesters of the specified years of studies.

Cumulative GPA:

$$\frac{\text{Total weighted points of all courses taken in all semesters}}{\text{Total number of credits enrolled in all semesters}}$$

3. The presentation of GPA is truncated, not rounded, to two decimal places.

## **R. SCALE AVERAGE (SA)**

1. Semester SA – This is a figure ranging from 0 to 20 used to indicate the average performance of a student in the semester concerned.

- a. Semester SA:

$$\frac{\text{Total weighted points of all courses taken in the semester concerned}}{\text{Total number of credits enrolled in the semester concerned}}$$

- b. Weighted points:

20-point scale x the number of credits of the course concerned

2. Cumulative SA – This is a figure ranging from 0 to 20 used to indicate the overall performance of a student in all the semesters of the specified years of studies.

Cumulative SA:

$$\frac{\text{Total weighted points of all courses taken in all semesters}}{\text{Total number of credits enrolled in all semesters}}$$

3. The presentation of SA is truncated, not rounded, to two decimal places.

## **S. GRADUATION HONOURS**

1. For Master's degree programmes, honours upon graduation are awarded as follows:

- Excellent
- Very Good
- Good

2. For postgraduate certificate/diploma programmes, a graduation certificate will be awarded upon graduation, with no classification of honours.

3. Graduation and Issue of Graduation Certificates

\*A student must complete all the required course work and obtain a minimum overall result of Grade B- (GPA 2.7) or 14 in 20-point scale for FLL and fulfill any other requirements as specified by the academic unit concerned as the graduation requirement. Upon successful fulfillment of all graduation requirements and with the approval from the University's Senate, academic awards are conferred on students at a congregation.

Students eligible for academic awards for that particular year will be notified in writing of the details regarding the congregation, the collection of academic dress, and the award certificate.

The graduation certificate will be issued once only, as there will be no second printing. **Students are therefore strongly advised to ensure the safe-keeping of this important document.**

The University reserves the right to withhold conferment of an award on a student who has outstanding fees owed to the University, or who has otherwise failed to discharge all

obligations towards the University.

## **T. DISCONTINUATION OF STUDIES**

1. A student shall be required to discontinue studies under the following circumstances:
  - a. A student who has failed a Compulsory Major course more than once.
  - b. A student who has enrolled in more than 1 course and has failed two-thirds of the credit units for courses taken in one semester.
  - c. A student who has failed the oral defence examination.
  - d. A student who has failed the report presentation.
  - e. A student who cannot complete his/her study within the maximum period of studies.
2. Students whose studies have been discontinued due to unsatisfactory academic performance or who have exceeded their maximum study period cannot register as a student of the University within the subsequent year (two semesters).

### Discontinued students returning after one year (two semesters)

For students who have been discontinued from their studies due to unsatisfactory academic performance, they should apply for re-admission and such application must be approved by the Vice Rector (Academic Affairs) with the recommendation from the Dean/Director of the academic unit concerned.

For students who have been discontinued from their studies by exceeding the maximum study duration, they should apply for regular admission as new students following all the procedures and rules for new students.

## **U. TRANSFER OF PROGRAMME**

1. Students cannot transfer programme/major. However, any special request is approved by the Dean/Director of the academic unit concerned of the programme/major transferred to.
2. Course Transfer  
A maximum of one-third of the credits required for the new programme can be transferred from courses taken previously, including exempted courses. Courses that cannot be transferred to the new programme will not be included in the GPA or SA calculation. Transferred courses are considered valid only after being endorsed by the Dean/Director of the student's home academic unit and approved by the University's Senate.

## **V. DEFERMENT OF STUDY**

1. Application for deferment of study from a withdrawn or inactive student will not be considered. For definitions of withdrawn and inactive students, please refer to item W and Y respectively.
2. Students who wish to postpone their studies should apply for deferment of study by submitting an online application to the Graduate School. The University does not guarantee such students that the degree programme/courses will remain constant after they return to the University.
3. Withdrawal grades will be recorded for each course at the time the student receives permission to defer. The grades are either "W", meaning that the student defers the study before the examination period, or "F", meaning that the student does not take the examinations but defers during or after the examination period. However, if a student defers the study after completing all the courses and examinations of a semester, all academic credits/grades are given for the courses taken in that semester.

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4. Students can apply for deferment of study for not more than 2 semesters at one time. If students wish to prolong their deferment period, they should submit another application before class commencement of the next semester after they have reached the previously approved deferment period. The total approved period of deferment of study cannot accumulate to more than 6 semesters. Any exceptional cases are subject to the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs) via the Graduate School.
  5. New students can apply for deferment of study for not more than one academic year. Application for such deferment should be made before class commencement. New students must fulfill all the conditions stated in their offer letters and submit the required amount of non-refundable deposit/tuition fees before they become eligible to apply for deferment of study. Such applications will only be permitted for medical reasons and exceptional cases with sound justification. For medical reasons, students are required to submit medical certificates issued by hospitals at the time of application. For exceptional cases with sound justification, students are required to specify the reason and submit written certification at the time of application.
  6. Students who have deferred their studies and wish to return to the University should apply for resumption of study. Resumption is not granted automatically (See the item Z - Resumption/Re-admission of Study for details). Besides, new students are not permitted to transfer to another programme when they apply for resumption of study.
  7. If students neither resume nor defer the studies before class commencement of the next semester after they have reached the previously approved deferment period, they will be considered having withdrawn from the University, and they have to apply for re-admission of study later if they wish to return to the University (See the item Z - Resumption/Re-admission of Study for details).

#### **W. WITHDRAWAL FROM THE UNIVERSITY**

1. Students who wish to terminate their studies at the University prior to graduation should apply for withdrawal of study by submitting an online application to the Graduate School.
2. Withdrawal grades will be recorded for each course at the time the student receives permission to withdraw. The grades are either "W", meaning that the student withdraws from the University before the examination period, or "F", meaning that the student does not take the examinations but withdraws during or after the examination period. However, if a student withdraws from the University after completing all the courses and examinations of a semester, all academic credits/grades are given for the courses taken in that semester.
3. Students who withdraw from the University and later wish to return must apply for re-admission of study. Re-admission of study is not granted automatically and is with lower priority than resumption of study during application consideration subject to quota availability (See the item Z - Resumption/Re-admission of Study for details).

#### **X. CHECK-OUT**

1. All withdrawn, suspended or discontinued students and those applying for deferment of study are required to complete the check-out procedures before leaving the University. Students are required to clear all outstanding matters with the department concerned.
2. All graduates are not required to come in person to the University to complete the check-out procedures. However, students who have any outstanding records must clear their records with the department concerned. Otherwise, certificates of graduation and other



official documents will not be issued.

3. A student may authorise another person to process the check-out procedures by filling in Graduate School's official authorisation letter. I.D. copies of both parties must be submitted.
4. Students who withdraw voluntarily from the University sever their connection with the University.
5. If students leave the University in the course of study without going through the check-out procedures, no official document (such as testimonial, transcript or graduation certificate) will be issued.

#### **Y. INACTIVE STUDENTS**

1. Students admitted or resuming in academic year 2013/2014 or before who do not settle their tuition fees (including continuation fee) ten calendar days after the commencement of classes in any semester will be considered inactive students.
2. Students admitted or resuming in academic year 2014/2015 onwards who do not enrol in any courses or do not settle their tuition fees ten calendar days after the payment deadline in any semester will be considered inactive students.
3. Inactive students will be prohibited from attending classes, using any services or facilities of the University, and applying for any official documents. For students who become inactive from academic year 2015/2016 onwards, the maximum inactive duration is two semesters cumulatively. If inactive students wish to return to the University within the inactive duration, they must make up the check-out procedures and apply for re-admission of study. An administration fee will be charged for the late check-out procedures, and a re-admission fee based on the number of inactive semesters will be charged upon approval of re-admission. Please refer to "Fees and Other Charges" for the relevant fees. Re-admission of study is not granted automatically and is with lower priority than resumption of study during application consideration subject to quota availability. Also, inactive students are with lower priority than withdrawn students for re-admission (See the item Y - Resumption/Re-admission of Study for details).

#### **Z. RESUMPTION/RE-ADMISSION OF STUDY**

1. Students who have deferred their studies and wish to return to the University should apply for resumption of study, while withdrawn, discontinued or inactive students should apply for re-admission of study.
2. Students returning to the University either through resumption or re-admission can continue their study with all the previous academic records. However, the procedures for resumption and re-admission are different from each other and re-admission is with lower priority than resumption of study during application consideration subject to quota availability. Also, discontinued and inactive students are with lower priority than withdrawn students for re-admission.
3. It should be noted that the total duration for deferment of study, withdrawal of study, and inactive period should not exceed six semesters altogether, and the inactive period should not exceed two semesters independently. No resumption or re-admission of study will be considered if students cannot fulfill this duration requirement. Any exceptional cases are subject to the endorsement from the Dean/Director of the academic unit concerned and the approval from the Vice Rector (Academic Affairs) via the Graduate School.

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Students who cannot return to the University through resumption or re-admission have to apply for regular admission if they wish to study at the University afterwards and all the previous academic records will be expired.

4. Procedures for Resumption of Study

When students apply for resumption of study, they should submit written applications to the Graduate School before class commencement of a certain semester for the approval from the Dean/Director of the academic unit concerned. Any applications submitted on/after the first day of classes will be directly rejected by the Graduate School. The applicants must meet all the admission requirements prevailing at the time of resumption and successful applications will be effective in the specific semester required by the students.

In addition, all resuming students who have deferred their studies due to health issues are required to submit a Medical Examination Report to the Graduate School during the resumption process. This report is to prove that the student has recovered from the health issues and is capable of pursuing his/her studies at the University. If a student has already had a medical check-up within three months prior to resumption, he/she may submit a certified true copy of that medical report.

5. Procedures for Re-admission of Study

When withdrawn and inactive students apply for re-admission of study, they should submit written requests to the Graduate School for the approval from the Dean/Director of the academic unit concerned. For inactive students, they must make up the check-out procedures before applying for re-admission; however, they are not required to obtain approval from the Dean/Director of the academic unit concerned for the check-out. Also, an administration fee will be charged for the late check-out procedures, and a re-admission fee based on the number of inactive semesters will be charged upon approval of re-admission (Please refer to “Fees and Other Charges” for the relevant fees).

When discontinued students apply for re-admission of study, they should submit written requests to the Graduate School for the approval from the Vice Rector (Academic Affairs) with the recommendation from the Dean/Director of the academic unit concerned. All re-admission application should be submitted to the Graduate School before class commencement of a certain semester and any applications submitted on/after the first day of classes will be directly rejected by the Graduate School. The applicants must meet all the admission requirements prevailing at the time of re-admission and successful applications will be effective in the following semester.

6. All resuming and re-admitted students should pay their tuition fees according to the tuition schemes of the resuming/re-admitted year and are required to check the study plan with the general office of the academic unit concerned.

**AA. CHANGE OF PERSONAL INFORMATION**

1. Students should inform the Graduate School immediately of any change of personal particulars entered in the students' registration records.
2. For changes of address (such as home address, postal address and email address) and contact numbers, requests may be sent through email. All current students can also directly change their addresses and contact numbers through the myUM (<https://myum.um.edu.mo>).
3. For changes of other personal particulars not mentioned above, students must submit an application form to the Graduate School in person with personal identification documents presented. Such application will not be accepted after graduation or withdrawal from the University.

## **AB. CERTIFICATION**

1. Academic Transcripts and Testimonials
  - a. An academic transcript is a certification of a student's record of academic performance at the University and it shows the student's grades obtained in a programme up to the latest final examination taken. Students can apply for transcripts after the academic reports have been released. A testimonial is a certification of the student's present registration status with regard to his/her studies at the University.
  - b. Students can apply for academic transcript or testimonial by submitting an application from to the Graduate School. The charge per copy may be found in "Fees and Other Charges". If students submit their applications by post in Macao, a cheque or cashier's order for the amount due should be enclosed. For overseas applicants, payment must be paid by either cashier's order or bank draft; an additional handling fee will be charged. Please refer to "Fees and Other Charges" for further details.
  - c. To avoid delay, please remember that requests for transcripts by other parties must bear the student's authorisation before the Graduate School can process the requests. During examination and assessment periods, the issuing of transcripts may be suspended or delayed.
  - d. The University reserves the right to withhold an academic transcript or a testimonial from a student who has outstanding fees owing to the University, or who has otherwise failed to discharge all obligations towards to the University.
2. Certified True Copy of Academic Documents  
 Students may apply for certified true copies of academic documents issued by the University, such as graduation certificates and academic transcripts, by submitting an application form to the Graduate School. Please refer to "Fees and Other Charges" for the relevant charges. However, the Graduate School will provide a free service to students who apply for admission to the programmes offered by the University.

## **AC. ACADEMIC HONESTY**

Students should uphold the principle of academic integrity and pursue their studies with passion and honesty. They should avoid committing any act of academic dishonesty, including but not limited to cheating, fabrication, collusion and plagiarism. Plagiarism is a serious academic offence and the University shall penalize the student who is proved to have incorporated others' works as his/her own work according to the "Student Disciplinary Regulations of the University of Macau" (SAO.03/201406/100). Regarding the types and handling procedures of academic dishonesty, please refer to the "Rules on Handling Student Academic Dishonesty" (AAO-REG.04/201112/068).

## **FEES AND CHARGES**

For details about fees and charges, please refer to the “Fees and Charges” section of the UM Academic Calendar or the homepage of the Treasury Section of the Finance Office (<https://fo.um.edu.mo/>).

## **IMPORTANT ANNOUNCEMENTS**

Notices such as important announcements, examination schedules or university activities will be posted on notice boards. There are also electronic bulletin boards, which display messages campus-wide and can be easily accessed through the campus computer network. In addition, the University sends important notices to students through SMS (short message service) or emails (university's accounts only). Students should check the campus notice-boards, electronic bulletin boards and university's email accounts to learn about University news and events.

## ACADEMIC REGULATIONS AND RULES

# General Rules Governing Bachelor's Degree Programmes

(Approved by the Rector on 29 April 2025)

## A. ADMISSION

1. Admission is governed by the University Admission Rules ([Admission Rules Governing Bachelor's Degree Programmes](#), [Admission Rules Governing Master's Degree & Postgraduate Certificate/Diploma Programmes](#), [Admission Rules Governing PhD and Other Doctoral Degree Programmes](#)). Applicants must satisfy the University admission requirements, and any additional requirements imposed by the academic unit they intend to enter.
2. Students should not enrol/register in any other universities upon registration at UM.
3. A student of the University is required to observe the General Rules, and those rules and procedures which govern admission requirements, examinations, fees and charges.

## B. GENERAL

1. The University offers programmes of study leading to the degrees of Bachelor of Arts (BA), Bachelor of Business Administration (BBA), Bachelor of Education (BEd), Bachelor of Law (LLB), Bachelor of Science (BSc), Bachelor of Social Sciences (BSocSc) or such other degrees as approved by the University authority.
2. Students will be awarded the appropriate bachelor's degree provided that they have:
  - a. undertaken a programme of study for a period normally of not less than four years for bachelor programmes; and
  - b. completed the prescribed courses; and
  - c. passed the prescribed examinations; and
  - d. paid the prescribed fees; and
  - e. fulfilled the requirements of the rules of the University.
3. Students must register in a programme of study on the specified dates in any one academic year, with compulsory attendance at classes.
4. The minimum duration of studies will be 75% of the normal duration of the programme while the maximum duration of studies will be 175% of the normal duration of the programme.

## C. ACADEMIC YEAR

An academic year covers the period from August to July. Each year consists of two semesters, plus an optional intensive summer term. Each semester consists of approximately seventeen weeks of scheduled classes, including examinations.

## D. REGISTRATION

1. New students are normally admitted as "first-year students" and will be considered registered students upon proper completion and submission of all registration materials to the Registry with tuition fees settled, while returning students will be considered registered students upon settlement of tuition fees.
2. Students are normally categorised as first, second, third, fourth or fifth year based on the

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number of credits gained. In special cases, such as transferring from one programme to another, or falling behind in studies because of failure in many courses, categorisation will be based on the advice of the academic unit.

3. A student must register in the name which appears in his/her personal identification documents.
4. Student Cards
  - a. All students will be issued with student cards (UM Campus Card).
  - b. A student card cannot be used by anybody other than the holder.
  - c. In case of loss or damage of a student card, a student should apply for a replacement by submitting an [application](#) to the Registry. A card replacement fee will be charged to the student.
  - d. Students may refer to the [Rules Governing the Use of UM Campus Card](#) for further details.

## **E. CREDIT AND COURSE LOAD**

1. The number of teaching hours of a credit is at least 15. Teaching hours include all kinds of face-to-face contact hours, such as lecture hours, laboratory hours, tutorial hours and legal practice, etc.
2. The number of study hours of a credit is 45. Study hours include the time required for any forms of teaching modes. Besides the ones mentioned in the above point, they also include internship, project, field work or practical training, laboratory or experimental work, participation in seminars, conference or assessment, etc.
3. Course Load for Students
  - a. In addition to the credits taken for Community and Peer Education courses, a student is normally allowed to take a maximum of 21 credits in a semester (an academic unit may allow less as the maximum).
  - b. A student may take up to 24 credits in a semester if he/she achieves a cumulative GPA of 2.0 or better. Student who wishes to increase the course load should submit a written application with strong justification to his/her home academic unit. Endorsement from the head of the department or programme coordinator and approval from the Dean of the student's home academic unit must be sought.

## **F. COURSE ENROLMENT**

1. Course Enrolment includes two processes, pre-enrolment and course add/drop. Students may refer to the [Course Enrolment Handbook](#) for further details.
2. Except under very special circumstances as approved by the Dean of the academic unit concerned, students are advised to follow the study plan specified by the programme in which they have enrolled. The number of credits/courses taken is restricted to the requirements of the academic unit for the semester. It should be noted that no substitutions are allowed under any circumstances for compulsory courses.
3. The courses offered by any academic unit are normally open to students enrolled in that unit, and to students enrolled in other academic units either as electives permitted by, or as requirements set by, those academic units.
4. A student shall not be allowed to take courses where lecture-time schedules conflict.
5. Students will not be entitled to proceed to pre-enrolment or course add/drop if there is any outstanding tuition fee.

6. Course Add/Drop
  - a. Students may make changes to their enrolment records during the course add/drop period. Requests for adding or dropping courses other than the add/drop period will not be considered.
  - b. Adding a new course depends on the availability of section quota.
  - c. A student who drops a course without going through the prescribed procedures will be given a failing grade, "F" or "NP" for that course.

7. Withdrawal from Individual Courses

Students may withdraw from an individual course after the course add/drop period subject to the following conditions:

- a. Students must maintain their enrolment(s) in a minimum of three credits of course(s) after the withdrawal.
- b. Students are allowed to withdraw from a maximum of one course per semester. Additionally, they are limited to a total of six course withdrawals during their undergraduate study at UM, regardless of the credit units of each course.
- c. Students are permitted to withdraw from a particular course only once. Subsequent withdrawals from the same course will not be permitted.

The above-mentioned conditions do not apply to first-year students placed on the lowest English language levels (E1a and E1b levels). These students are not eligible to withdraw from any courses during their first two registered semesters at UM.

Students who wish to withdraw from a course after the add/drop period should submit an [online application](#) to the Registry no later than the end of the 11<sup>th</sup> week of a semester. For Summer Term, students who wish to withdraw from a course should submit an [online application](#) to the Registry at least 5 working days before the last class of the course concerned. A "W" grade will be assigned to the withdrawn course and the tuition fee for the withdrawn course will not be refunded. Any application submitted after the aforementioned deadline or any application for reinstatement of a withdrawn course will not be considered.

8. Students should always look carefully at their enrolment records. If they are not sure whether their enrolment records are correct, they may seek advice from the academic unit concerned. Students are responsible for following up any updates, errors or omissions.

9. Study Plan

A study plan is a guide to what students have to accomplish in order to complete their programme of studies. Students are advised to consult their study plans during selection of courses for enrolment. They should keep their study plans and any subsequent adjustments for future reference during course enrolment and for graduation purposes.

10. Course Designations

Courses specified in the undergraduate programmes are designated as Compulsory Major course (CM), Required Elective (RE), Community and Peer Education course (CPE), Languages and Skills course (L&S), General Education course (GE), Free Elective (FE) or Minor course (MI).

- a. Compulsory Major courses must be taken in the semester indicated. A student who fails a Compulsory Major course is required to retake that course.
- b. Required Electives are courses chosen by the student but within a group of courses designed for this purpose by the programme. Required Electives may be taken at other times. A student who fails a Required Elective will be required to either retake the same course or take another course within the same group.
- c. Community and Peer Education courses focus on experiential learning and are run jointly by the Faculties and the Residential Colleges. A student who fails a Community and Peer Education course will be required to retake that course.

- d. Languages and Skills courses include English language courses, Chinese language course, Portuguese language course and Information Technology course. A student who fails an English language course or Information Technology course will be required to retake that course. A student who fails a Chinese or Portuguese language course will be required to either retake the same course or take the other course.
- e. General Education courses are courses listed in the General Education Programme. A student who fails a compulsory General Education course will be required to retake that course. A student who fails an elective General Education course will be required to either retake the same course or take another course within the same area. Within individual major programmes, some restrictions on the selection of General Education courses may be prescribed.
- f. Free Electives are selected by the student in areas inside or outside the major as designated in the curriculum, subject to the academic unit's approval. A student who fails a Free Elective will be required to either retake the same course or take another course to fulfil graduation requirements. Within individual programmes, some courses may not be considered Free Electives.
- g. Minor courses are courses designated by the Minor Programme.

## G. UNDERGRADUATE CURRICULUM MODEL

The following undergraduate curriculum model is implemented in academic year 2019/2020 onwards:

Course Types		No. of Credits
1.	Major (CM + RE)	40 – 66
2.	Community and Peer Education (CPE)	3
3.	Languages and Skills <sup>a</sup> (L&S)	3 – 15
4.	General Education (GE)	24 – 27
5.	Free Elective (FE)	9 – 50
<b>Minimum Credit Requirement</b>		<b>120</b>

<sup>a</sup> Students who test out of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s).

## H. COURSE RETAKE

1. A student can retake a course only if the course result is below Grade C (2.0).
2. There is no limit to the number of times a student retakes a course. The results of all attempts will be recorded and shown on the transcript. Only the highest grade among all attempts will be considered in GPA calculation: if this grade is Grade C (2.0) or below, it will be counted towards the GPA; if this grade is above Grade C, only Grade C (2.0) will be counted towards the GPA.

## I. COURSE EXEMPTION

1. Students who have completed equivalent courses in any tertiary education institutions may apply for course exemption to the academic unit concerned by the last day of course add/drop period each semester. In the case of course exemption, credits will be granted to replace the original UM course. Exempted courses will be assigned a grade "X" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.



Applications should be submitted to student's home academic unit and be accompanied by supporting documents, e.g. course outlines, official course descriptions, lecture hours, study plans, course grades etc, showing that the students have passed equivalent courses elsewhere.

2. Students may apply for course exemptions by the last day of course add/drop period each semester. Course exemptions are considered valid only after being endorsed by the head of department or programme coordinator of the course offering units, and the Dean of the student's home academic unit, and then approved by the University. Any late applications for course exemptions will be deferred to the following semester for approval process.
3. A course can be exempted only if it meets the following three requirements:
  - a. The course applied for course exemption must be deemed at same degree level.
  - b. Course Content  
The course applied for course exemption must have at least 80% content similarity. The head of department or programme coordinator/head of GE Programme/GE course area coordinator can judge the course content.
  - c. Lecture Hour  
The lecture hours of the course applied for course exemption must have at least 80% as the course offered by UM. One UM credit is equal to one lecture hour per week for one semester and the total number of teaching weeks of a semester is at least 15.

#### Study Hour

For courses completed under the European Credit Transfer System (ECTS) without having 80% lecture hours as the UM-offered course, the study hours of the course applied for course exemption must have at least 80% as the course offered by UM. One UM credit is equal to 45 study hours for one semester.

4. The normal limit on the number of credits that can be transferred to a programme is one-third of the total credits required. This limit includes course exemptions as well as credits transferred to the new programme through transfer of programme (See the item S – Transfer of Programme for details).
5. For courses completed in UM-initiated outbound programmes without comparable courses offered by UM, students can still transfer them to UM as free electives with a maximum of six credits. Endorsement from the head of department or programme coordinator and approval from the Dean of the student's home academic unit are required.
6. All exceptional cases are subject to the recommendation of the Dean of the student's home academic unit and the approval of Vice Rector (Academic Affairs) via the Registry.

## J. COURSE WAIVER

1. Students who have not completed equivalent courses in any tertiary education institutions but have attained the knowledge and skills of specific UM courses may apply for a course waiver to the academic unit concerned by the last day of course add/drop period each semester. In the case of course waiver, no credits will be granted, and students will be required to take a related course approved by the head of department or programme coordinator to fulfil the credit requirement. Waived courses will be assigned a grade "CW" and will be shown in the transcript of academic record, but will not be counted towards the GPA or SA.

Applications must be submitted to student's home academic unit and be accompanied by an explanation for the waiver request and supporting documents (if any). Proof of the acquired competence is required.

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2. Students may apply for course waiver for any courses. For the course in Community and Peer Education "Residential College Experiential Learning", students may apply for course waiver on the condition that they have possessed a degree from a comparable tertiary education institution.
  3. Students may apply for course waivers by the last day of course add/drop period each semester. Course waivers are considered valid only after being endorsed by the head of department or programme coordinator of the course offering units, and the Dean of the student's home academic unit, and then approved by the University. Any late applications for course waivers will be deferred to the following semester for approval process.
  4. All exceptional cases are subject to the recommendation of the Dean of the student's home academic unit and the approval of Vice Rector (Academic Affairs) via the Registry.

#### **K. ATTENDANCE AND ABSENCE**

1. Attendance
  - a. Participation in the work of a course is a precondition for a student's achievement of credits in that course.
  - b. A student whose studies are discontinued will not be permitted to attend classes during the period of suspension.
2. Absence
  - a. A student who cannot attend classes because of illness must inform the teacher concerned in writing at the earliest opportunity and seek his/her approval. When longer absence is necessary (over three days) or when absence from examinations is in question, a student must submit in writing an application for leave of absence to the Dean or Director of the course offering unit concerned, together with a certificate signed by a registered medical practitioner for approval.
  - b. A student who, during his studies, desires leave of absence for more than two full consecutive days for non-medical reasons must apply to the Dean or Director of the course offering unit concerned in writing at the earliest opportunity, stating the reasons for which the leave of absence is sought. Permission for such leave will only be granted in exceptional circumstances and on a case-by-case basis.
  - c. A student who is absent without applying for leave of absence from a course for more than 20% of its scheduled teaching periods in the aggregate will not be allowed to take the final examination and will receive a failing grade for that course.
  - d. If the expected period of leave is of a significant duration, students should apply for deferment of studies.

#### **L. EXAMINATION AND ASSESSMENT**

1. A student will take course examinations, where each course will be examined or otherwise assessed at the end of the semester in which it is offered.
2. For medical or other compelling reasons, a student who is unable to sit for any course examination must apply in writing with a certificate signed by a registered medical practitioner at the earliest possible moment (but not later than seven calendar days after the examination concerned) to the Dean or Director of the course offering unit for leave of absence.
3. A student who is absent from any examination without permission will be given a failing grade for that examination.
4. In some courses, assessment may be made otherwise than by examination when the

programme of study so specifies.

5. A student will be examined or assessed for every course he/she has registered for on the basis of his/her performance in that course. Criteria for examination or assessment may include one or any combination of the following: attendance, class-work, written assignments, laboratory work, field work, research papers, tests or examinations.

#### M. GRADING SYSTEM

1. The below grading system is applicable to all academic units except the Faculty of Law:

Letter Grades	Grade Points	Percentage
A	4.0	93-100
A-	3.7	88-92
B+	3.3	83-87
B	3.0	78-82
B-	2.7	73-77
C+	2.3	68-72
C	2.0	63-67
C-	1.7	58-62
D+	1.3	53-57
D	1.0	50-52
F	0	Below 50

Letter grades are official grades. Grade points are used for the purpose of calculating the GPA. Grades other than F are passing grades.

2. For the Faculty of Law, 20-point scales are official grades. Scales at 10 or above are passing grades.
3. Other Grades

CW	Course Waiver	Assigned to a course that has been waived.
DX	Deferred Result	A temporary grade assigned to students pending (a) supplementary examination results or (b) final results with justifiable reasons approved by the head of the course offering units.
I	Incomplete	Used when work is necessarily delayed through no fault of the student, such as a medical issue. This grade must be converted to a regular grade by the commencement of the following semester; otherwise, it will be converted to an "F".
NP	Fail	Given for a course where the results are not counted towards the GPA or SA.
P	Pass	
W	Withdrawal	Assigned when a student has withdrawn from a course. The result will not be counted towards the GPA or SA.
X	Course Exempted	Assigned in the case of a course exemption.

#### N. GRADE POINT AVERAGE (GPA)

1. Semester GPA – This is a figure ranging from 0 to 4.0 (A=4.0) used to indicate the average performance of a student in the semester concerned.

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- a. Semester GPA:

Total weighted points of all courses taken in the semester concerned

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Total number of credits enrolled in the semester concerned

- b. Weighted points:

Grade points x the number of credits of the course concerned

2. Cumulative GPA – This is a figure ranging from 0 to 4.0 (A=4.0) used to indicate the overall performance of a student in all the semesters of the specified years of studies.

Cumulative GPA:

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Total weighted points of all courses taken in all semesters

Total number of credits enrolled in all semesters

3. The presentation of GPA is truncated, not rounded, to two decimal places.

#### **O. SCALE AVERAGE (SA)**

1. Semester SA – This is a figure ranging from 0 to 20 used to indicate the average performance of a student in the semester concerned.

- a. Semester SA:

Total weighted points of all courses taken in the semester concerned

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Total number of credits enrolled in the semester concerned

- b. Weighted points:

20-point scale x the number of credits of the course concerned

2. Cumulative SA – This is a figure ranging from 0 to 20 used to indicate the overall performance of a student in all the semesters of the specified years of studies.

Cumulative SA:

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Total weighted points of all courses taken in all semesters

Total number of credits enrolled in all semesters

3. The presentation of SA is truncated, not rounded, to two decimal places.

#### **P. ACADEMIC HONOURS**

Dean's and Rector's Honour Lists

Students in bachelor's degree programmes will be placed on the Dean's and Rector's Honour List at the end of the first or second semester if they meet the following criteria:

■ **For Dean's Honour List:**

An eligible student should be a registered student in the relevant semester who completes at least 15 credits or the number of credits required by the designated study plan of the semester at the University and achieves a semester GPA of 3.3 / semester SA of 14 or better in that semester.

■ **For Rector's Honour List:**

The Rector's Honour List is compiled on the Dean's recommendation. Only the best registered student in each academic unit will be selected, and the candidates must complete at least 15 credits or the number of credits required by the designated study plan of the semester at the University and achieve a semester GPA of 3.5 / semester SA of 16 or better in both semesters of that academic year.

Students going out for study, research, exchange, or other relevant academic activities or on leave for one semester or one academic year would not be included in the Dean's or Rector's Honour Lists in that semester or academic year.

## Q. GRADUATION

1. Students are required to fulfil the following requirements in order to graduate:
  - a. GPA Requirement  
For programmes using GPA system, students are required to achieve a cumulative GPA of 2.0 or above.
  - b. Residential College (RC) Requirement  
Mandatory residence of two semesters is normally required for the 1<sup>st</sup> year students. All students are required to fulfil the requirements specified by the RC system and the affiliated RC.

The University will **NOT** issue any certificates to those students who pass all the required courses but do not fulfil both the minimum GPA requirement and the RC requirement for graduation. However, transcripts will be issued to the students.

2. Graduation and Issue of Graduation Certificates  
Upon successful completion of studies, fulfilment of both the GPA requirement and the RC requirement at the University, and with the approval of the University's Senate, academic degrees are conferred on students at a congregation.

Students eligible for academic degrees for that particular year, including those graduating after semester 1 and semester 2, will be notified in writing of the details regarding the congregation, the collection of academic dress, and the graduation certificate.

The graduation certificate will be issued once only, as there will be no second printing. **Students are therefore strongly advised to ensure the safe-keeping of this important document.**

The University reserves the right to withhold conferment of a degree on a student who has outstanding items owed to the University, or who has otherwise failed to discharge all obligations towards the University.

## R. ACADEMIC WARNING, PROBATION AND DISCONTINUATION OF STUDIES

1. Academic Warning  
A student shall be placed on Academic Warning if he/she has obtained a semester GPA or cumulative GPA below 1.70 in any registered semester.

A student on Academic Warning will receive a written warning about his/her unsatisfactory academic performance and the required academic advising from the concerned academic unit.

2. Academic Probation  
A student shall be placed on Academic Probation for one semester if he/she has obtained a semester GPA or cumulative GPA below 1.70 in any two consecutive registered semesters.  
A student on Academic Probation will receive a written warning about his/her unsatisfactory academic performance. The study load of the student shall be restricted to a maximum of 12 credits. Such student shall be required to seek academic advice from his/her home academic unit on a regular basis (usually at least once a month) during the probation semester. His/Her performance shall be reviewed at the end of the probation semester:

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- a. If a student obtains both semester GPA and cumulative GPA of 1.70 or above in the probation semester, his/her Academic Probation will be lifted.
  - b. If a student obtains either a semester GPA or cumulative GPA below 1.70 in the probation semester, his/her Academic Probation will be extended for one more semester.
  - c. If a student obtains both semester GPA and cumulative GPA below 1.70 in the probation semester, he/she will be required to discontinue his/her studies.

The Registry will send the list of students to be discontinued of studies to the concerned academic units for confirmation. For special cases, the Dean of the academic unit concerned may extend the probation period for one more semester with strong justifications. In any case, a student shall be placed on Academic Probation for not more than three registered semesters.

3. Students whose studies have been discontinued due to unsatisfactory academic performance cannot be re-admitted to the *same programme* in the following periods, unless special approval has been granted by the Vice Rector (Academic Affairs):
  - a. within the following year (two semesters) after discontinuation; or
  - b. three years (six semesters) after discontinuation.

Discontinued students who wish to be re-admitted to the same programme other than the periods mentioned above should apply for re-admission, and such application shall be considered and approved by the Dean of the academic unit concerned (See the item Y – Resumption/Re-admission of Study for details).

## **S. TRANSFER OF PROGRAMME**

1. Students may apply for transfer of programme during the scheduled period each semester and may select a maximum of two programme choices in order of preferences. However, students are not eligible to apply for transfer of programme during their first registered semester at UM.
2. A student is allowed only one approved transfer of programme during their undergraduate studies at UM.
3. All applications must be approved by the Dean of the academic unit of the requested programme. Once approved, the transfer will take effect in the following semester. Students who successfully transfer to a new programme must adhere to the minimum and maximum durations of study specific to that programme (See the item B – General for details), counting from the semester they transfer until graduation. For students transferring between different majors within the Bachelor of Business Administration (BBA) programme, these durations of study will be calculated from their admission to UM until graduation.
4. **Course Transfer**  
A maximum of one-third of the credits required for the new programme can be transferred from courses taken previously, including exempted courses. If the total credits of the courses taken previously exceed one-third of the credits required for the new programme, the courses will be transferred based on their types in the new programme: Community and Peer Education courses (CPE), followed by Languages and Skills courses (L&S), Compulsory General Education courses (GE), Compulsory Major courses (CM), Required Electives (RE), Elective General Education courses (GE), and finally Free Electives (FE). Courses that cannot be transferred to the new programme will still be shown on the transcript; however, their credits and results will not be included in the GPA or SA calculation for graduation. Transferred courses are considered valid only after being endorsed by the Dean of the student's home academic unit and approved by the

University.

- a. For students transferring between programmes with the same grading system, both the credits and results of the transferred courses will be included in the GPA or SA calculation for graduation. For students transferring between different majors within the Bachelor of Business Administration (BBA) programme, no one-third limit will be applied.
- b. For students transferring between programmes with different grading systems:
  - If the courses taken previously are required by the new programme, both the credits and results of the transferred courses will be included in the GPA or SA calculation for graduation.
  - If the courses taken previously are not required by the new programme, the credits of the transferred courses will be counted, but the results of the transferred courses will not be included in the GPA or SA calculation for graduation.

## **T. PURSUING MINOR PROGRAMMES**

1. A minor programme requires 30-35 credits of courses.
2. A student who wishes to apply for enrolling in a minor programme should achieve a cumulative GPA of 2.0 or above (Grade C or better).
3. Students may apply for minor programme within the scheduled period in each semester and can pursue a maximum of two minor programmes but they are not eligible to apply for it in their first registered semester at UM. Students having prior approval for pursuing minor programme will be given priority in course enrolment. However, students without prior approval may also apply for qualification of a minor programme in the 2<sup>nd</sup> semester of the final year of study if they have successfully enrolled in all the courses required by the minor programme.
4. Changing minor programme is subject to approval of the academic unit of the minor programme changed to. Any student can have only one approved change of minor programme during his/her undergraduate study at UM.
5. In order to graduate with a minor qualification, a student must complete all requirements of the enrolled minor programme, as well as all the requirements of the major programme of study. The courses taken for minor programme cannot be counted towards students' major programme and vice versa. The results achieved from the minor courses will not be calculated towards the GPA calculation for graduation.
6. Students who graduate with a minor qualification will have a certificate awarded together with a separate transcript indicating all the courses taken for the minor programme.
7. A student who wishes not to continue their enrolled minor programme should apply for withdrawal from minor programme by submitting an [application form](#) to the Registry. The courses taken previously for the withdrawn minor programme will all be counted towards students' major programme and included in the GPA calculation for graduation.

## **U. DEFERMENT OF STUDY**

1. Application for deferment of study from a withdrawn or inactive student will not be considered. For definitions of withdrawn and inactive students, please refer to item V and X respectively.
2. Students who wish to postpone their studies should apply for deferment of study by submitting an [online application](#) to the Registry. The University does not guarantee such students that the degree programmes/courses will remain constant after they return to the University.

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3. Students can apply for deferment of study for not more than two semesters at one time. If students wish to prolong their deferment period, they should submit another application before the first day of the next semester after they have reached the previously approved deferment period. The total approved period of deferment of study cannot accumulate to more than six semesters.
  4. First-year registered students can apply for deferment of study for not more than one academic year. Such applications will only be permitted for medical reasons and exceptional cases with sound justification. For medical reasons, students are required to submit medical certificates issued by hospitals at the time of application. For exceptional cases with sound justification, students are required to specify the reason and submit written certification at the time of application.
  5. Students who have deferred their studies and wish to return to the University should apply for resumption of study. Resumption is not granted automatically (See the item Y - Resumption/Re-admission of Study for details). Besides, students are not permitted to transfer to another programme when they apply for resumption of study.
  6. If students neither apply for resumption of study nor submit another deferment application before the first day of the next semester after they have reached the previously approved deferment period, they will be considered having withdrawn from the University, and they have to apply for re-admission of study later if they wish to return to the University (See the item Y - Resumption/Re-admission of Study for details).

#### **V. WITHDRAWAL FROM THE UNIVERSITY**

1. Students who wish to terminate their studies at the University prior to graduation should apply for withdrawal from studies by submitting an [online application](#) to the Registry.
2. Withdrawal grades will be recorded for each course at the time the student receives permission to withdraw. The grades are either "W", meaning that the student withdraws from the University before the examination period, or "F", meaning that the student does not take the examinations but withdraws during or after the examination period. However, if a student withdraws from the University after completing all the courses and examinations of a semester, all academic credits/grades are given for the courses taken in that semester.
3. Students who withdraw from the University and later wish to return must apply for re-admission of study. Re-admission of study is not granted automatically. It is with lower priority than resumption of study during application consideration and is subject to quota availability (See the item Y - Resumption/Re-admission of Study for details).

#### **W. CHECK-OUT**

1. All withdrawn, discontinued students and those applying for deferment of study are required to complete the [check-out procedures](#) before leaving the University. Students are required to clear all outstanding matters with the department concerned.
2. If students leave the University in the course of study without going through the check-out procedures, no official document (such as testimonial, transcript or graduation certificate) will be issued.

#### **X. INACTIVE STUDENTS**

1. Students who fail to enrol in at least three credits of course(s) or do not fully settle their tuition fees in any semester will be considered inactive students.



2. Students are required to settle their tuition fees before the payment deadline. When students fail to settle their tuition fees by the due date, they may settle their overdue payment with an overdue administrative charge within 10 calendar days after the payment deadline (Please refer to [Fees and Other Charges](#) for details). Any requests for late payment after 10 calendar days of the payment deadline will not be considered and any students who do not have their tuition fees fully settled by the said time will be considered inactive students.
3. Inactive students will be prohibited from attending classes, using any services or facilities of the University, and applying for any official documents. For students who become inactive from academic year 2015/2016 onwards, the maximum inactive duration is two semesters cumulatively. If inactive students wish to return to the University within the inactive duration, they must apply for re-admission of study. Re-admission of study is not granted automatically. It is with lower priority than resumption of study during application consideration and is subject to quota availability. Also, inactive students are with lower priority than withdrawn students for re-admission (See the item Y - Resumption/Re-admission of Study for details).

#### **Y. RESUMPTION/RE-ADMISSION OF STUDY**

1. Students who have deferred their studies and wish to return to the University should apply for resumption of study, while withdrawn, discontinued or inactive students should apply for re-admission of study.
2. Students returning to the University either through resumption or re-admission can continue their study with all the previous academic records. However, the procedures for resumption and re-admission are different from each other. Re-admission is with lower priority than resumption of study during application consideration and is subject to quota availability. Also, discontinued and inactive students are with lower priority than withdrawn students for re-admission.
3. It should be noted that the total duration for deferment of study, withdrawal of study, and inactive period should not exceed six semesters altogether, and the inactive period should not exceed two semesters independently. No resumption or re-admission of study will be considered if students cannot fulfil this duration requirement. In this case, all academic records will be expired and students have to apply for admission if they wish to study at the University afterwards.
4. **Procedures for Resumption of Study**  
When students apply for resumption of study, they should submit an [application form](#) to the Registry before the first day of a certain semester for the approval from the Dean of the student's home academic unit. Any applications submitted on/after the first day of classes will be directly rejected by the Registry. The applicants must meet all the admission requirements prevailing at the time of resumption and successful applications will be effective in the specific semester required by the students.

In addition, all resuming students who have deferred their studies due to health issues are required to submit a [Medical Examination Report](#) to the Registry during the resumption process. This report is to prove that the student has recovered from the health issues and is capable of pursuing his/her studies at the University. If a student has already had a medical check-up within three months prior to resumption, he/she may submit a certified true copy of that medical report.

5. **Procedures for Re-admission of Study**  
When withdrawn, discontinued and inactive students apply for re-admission of study, they should submit written requests to the Registry for the approval from the Dean of the

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student's home academic unit. For inactive students, they must make up the check-out procedures before applying for re-admission, however, they are not required to obtain approval from the Dean of the student's home academic unit for the check-out. Also, an administration fee will be charged for the late check-out procedures, and a re-admission fee based on the number of inactive semesters will be charged upon approval of re-admission (Please refer to [Fees and Other Charges](#) for the relevant fees). All re-admission application should be submitted to the Registry before the first day of a certain semester and any applications submitted on/after the first day of classes will be directly rejected by the Registry. The applicants must meet all the admission requirements prevailing at the time of re-admission and successful applications will be effective in the following semester.

6. All resuming and re-admitted students should pay their tuition fees according to the tuition schemes of the resuming/re-admitted year and are required to check the study plan with the general office of the academic unit concerned.

## **Z. CHANGE OF PERSONAL INFORMATION**

1. Students should inform the Registry immediately of any change of personal particulars entered in the students' registration records.
2. For changes of address (such as home address, postal address and email address) and contact numbers, requests may be sent through email. All current students can also directly change their addresses and contact numbers through the myUM (<https://myum.um.edu.mo>).
3. For changes of other personal particulars not mentioned above, students must submit an [application form](#) to the Registry in person with personal identification documents presented. Such application will not be accepted after graduation or withdrawal from the University.

## **AA. CERTIFICATION**

1. Academic Transcripts and Testimonials
  - a. An academic transcript is a certification of a student's record of academic performance at the University and it shows the student's grades obtained in a programme up to the latest final examination taken. Students can apply for transcripts after the e-academic reports have been released. A testimonial is a certification of the student's present registration status with regard to his/her studies at the University.
  - b. Students can apply for academic transcript or testimonial by submitting an [application](#) to the Registry. The charge per copy may be found in [Fees and Other Charges](#).
  - c. To avoid delay, please remember that requests for transcripts by other parties must bear the student's authorisation before the Registry can process the requests.
  - d. The University reserves the right to withhold an academic transcript or a testimonial from a student who has outstanding fees owing to the University, or who has otherwise failed to discharge all obligations towards to the University.
2. Certified True Copy of Academic Documents

Students may apply for certified true copies of academic documents issued by the University, such as graduation certificates and academic transcripts, by submitting an [application form](#) to the Registry. Please refer to [Fees and Other Charges](#) for the relevant charges.

**AB. ACADEMIC HONESTY**

Students should uphold the principle of academic integrity and pursue their studies with passion and honesty. They should avoid committing any act of academic dishonesty, including but not limited to cheating, fabrication, collusion and plagiarism. Plagiarism is a serious academic offence and the University shall penalize the student who is proved to have incorporated others' works as his/her own work according to the [Student Disciplinary Regulations of the University of Macau](#). Regarding the types and handling procedures of academic dishonesty, please refer to the [Rules on Handling Student Academic Dishonesty](#).

## Examination Rules

(Approved by the Rector on 05 July 2024)

### General Instructions

#### 1. Responsibility to Attend Examinations

- a. Candidates are responsible for checking the dates, times and locations of their examinations from the examination schedules, and for presenting themselves for examination at the appointed place and time. Examination schedules will be announced by the Registry or academic unit at least one month prior to the examination period.
- b. Where all or part of the assessment for an examination is by means other than of a formally invigilated written examination, the instructor will announce details of the appropriate arrangements, and it is the candidate's responsibility to acquaint themselves with these details.
- c. A candidate who is unable to attend an examination under normal conditions because of illness, misadventure, or other extenuating circumstances, or who would be significantly disadvantaged if required to do so, may be permitted to sit the examination under special conditions. Such special arrangements, which may include (if necessary) additional time, a re-scheduling of the examination, the use of dictating or other assistance, and/or the use of premises outside the University, will be approved in advance by the Dean/Director of the academic unit concerned. In all other respects, the University regulations governing examinations will apply. Candidates requesting special arrangements on medical grounds will be required to substantiate their requests with a medical certificate or other documentary evidence. Candidates requesting special arrangements on other grounds may be required to reimburse the University for expenses incurred in such arrangements.
- d. A candidate is required to inform the academic unit concerned in writing immediately if for any reason he/she is unable to sit for an examination because of illness, accident or other causes, or if there is any factor arising immediately prior to or during the examination which the candidate believes could adversely affect his/her performance and which he/she wishes to be taken into account when assessing that performance. The candidate's letter must state clearly the examination in question, the cause of the absence or the manner in which the performance was affected, and must enclose the relevant supporting documentary evidence, e.g., medical certificates.
- e. Any candidate failing to give notice as specified in Examination Rule (1.d) above within seven working days after the examination to the academic unit concerned may lose the opportunity to have these circumstances taken into account or to appeal on these grounds against the decision of the Academic Council/Pedagogic Committee.
- f. A candidate who asks for rearrangement of final examinations with mere justification that he/she has to attend external examinations, e.g., TOEFL, CET4/6, etc., will not be accepted.

#### 2. Use of Materials and Aids

- a. No stationery will be provided at the examination venue. Candidates should provide themselves with the necessary writing and drawing tools.
- b. All questions in a written examination must be answered using only answer booklets, supplementary sheets and other materials provided by the University for that examination. Candidates at any examination, either written or practical, will not be permitted to make use of any paper, books, notes, dictionaries, instruments, aids or other materials unless

expressly authorized in the rubric of the examination paper. Details of any such materials and aids which may be permitted in the examination will be provided to candidates in advance by the examiners. Authorized materials and aids will be subject to inspection by the invigilators.

- c. Where electronic calculators are permitted for use in an examination, these instruments should be non-programmable unless expressly allowed, hand-held, self-powered, and silent in operation. These should not possess any graphic or word-display facilities, e.g., electronic dictionaries, smart watches, etc. Candidates may not use any external media associated with an electronic calculator, such as instruction booklets, magnetic cards or memory modules. Candidates are responsible for ensuring that their calculators are in working order, and have a sufficient power supply, and that alternative means of calculating are available in the event that their electronic calculators fail during an examination.
- d. Except authorized materials and aids, candidates are prohibited from using any other electronic devices, e.g., smart phones and watches, electronic dictionaries, etc., during an examination.
- e. Mathematical tables and all other materials provided by the University for use in examinations must not be removed by candidates from the examination venue.

### **3. Before the Examination**

- a. Candidates are required to bring along their personal I.D. cards and UM Campus Cards whenever they have an examination for verification purposes. Candidates who are unable to present their cards will not be allowed to write the examination.
- b. Invigilator should ensure that only examination candidates are allowed to enter the examination venue.
- c. Candidates should check their examination venues and seat numbers from their Final Examination Timetable.
- d. Candidates will be admitted into the examination venue at least 5 minutes before the commencement of an examination. Candidates who arrive late and are admitted will not be given extra time. No candidate will be admitted into an examination venue 45 minutes after the commencement of an examination.

### **4. Entry to Examination Venue**

- a. Candidates shall not enter the examination venue until permitted to do so by an invigilator. Upon entering the examination venue, candidates become subject to the authority of the invigilators and must act according to any instructions given by an invigilator.
- b. Candidates are advised not to leave their study materials and personal property outside the entrance of the examination venue due to the risk of losing such items. Such property should be deposited in a place well away from the candidates, as directed by the invigilator.
- c. Candidates with watch alarms or other apparatus which could create noise, e.g., calculators, smart phones etc., should switch them off and disconnect them from the internet before entering the examination venue, and place them under their seats in a position clearly visible to invigilators. These electronic devices must not be switched on or used during the examination or before the candidates leave the examination venue.
- d. No food or drink is allowed inside the examination venue.
- e. No photo taking/recording is allowed inside the examination venue.
- f. Candidates shall observe silence within the examination venue except when it is necessary to communicate with an invigilator and that it will not cause any unnecessary distraction to other candidates. A candidate who persists in causing disturbance to other candidates after a warning may be required to discontinue the examination and leave the examination venue.

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## **5. During the Examination**

- a. Candidates shall not start writing until given permission to do so by the invigilator.
- b. Candidates should first read through the whole question paper when an examination begins. If a wrong question paper was being handed out, or if the questions indicate that other materials should have been given out, but have not been, candidates should inform the invigilator immediately.
- c. Candidates should pay attention to any general directions which may be stated either on the cover page of the examination paper or at the beginning of each question. They should also listen carefully to the presiding invigilator's announcements.
- d. Invigilators shall make announcement for instructions of the examination and remind candidates of the consequences of cheating before an examination starts.
- e. Candidates must write the subject title, subject code and their student number clearly on the front page of each answer booklet and on the cover page of the examination paper.
- f. Candidates must read the instruction printed on the examination question paper before doing the examination.
- g. No candidate will be permitted to leave the examination venue during the first 45 and last 15 minutes of the examination.
- h. Candidates wishing to leave the examination venue temporarily will be permitted to do so under the supervision of an invigilator. Under such circumstance, candidates shall not bring any unauthorized electronic devices with them when leaving the examination venue, nor shall they use any unauthorized electronic devices when they are away from the examination venue.
- i.
  - i) If circumstances arise during an examination which, in the opinion of the invigilator, render it necessary for the examination to be cancelled or postponed, the invigilator will stop the examination and, as soon as possible, arrange for the written scripts to be collected and report the matter to the respective academic unit.
  - ii) When a report is made under such circumstances, the academic unit concerned will investigate the matter reported and take action if necessary. In the event another examination is ordered to be held, the new examination will be deemed to be the prescribed examination, and a report will be made to the Dean/Director of the academic unit concerned.

## **6. Collection of Scripts**

- a. During the last 15 minutes of each examination period, candidates must remain in their seats until they are told to leave by the invigilator.
- b. It is the responsibility of the candidate to ensure that all loose pages are securely fastened into the answer booklet and that all work which is to be considered by the examiners is handed in. No work that is removed by the candidate from the examination venue will be accepted for consideration by the examiners.

## **7. Conduct of Candidates**

- a. Candidates shall comply with the Examination Rules and all instructions given by an invigilator.
- b. Candidates shall observe silence within the examination venue except when it is necessary to communicate with an invigilator, and that it will not cause any unnecessary distraction to other candidates. A candidate who persists in causing disturbance to other candidates after a warning may be required to discontinue the examination and leave the examination venue.
- c. No person may impersonate a candidate, nor may any candidate permit himself/herself to be impersonated at any examination.
- d. During an examination, candidates shall not communicate in any way with other candidates, nor give or receive any information, materials or aids to or from other

candidates, nor make use of any materials or aids not specifically authorized for that examination.

- e. i) Candidate who is found cheating or misconduct will be informed by the invigilator, who is empowered with the authority, of the academic unit concerned, to discontinue the examination. Expulsion from the examination venues should occur only when it is felt that such disciplinary action is essential.
- ii) The academic unit concerned reserves the right to withhold issuing the results of examinations within the investigation period.

## 8. Disqualification

If any of the following circumstances arises during the examination, such behavior will be considered as cheating or misconduct. The candidate will be disqualified and a failing grade (i.e. F/NP) will be given for the course together with a verbal or written warning. In severe cases, a disciplinary panel may be called to handle the case. A record of such proceedings will be kept in the student's file:

- i) A candidate disobeys the instructions given by the invigilator.
- ii) A candidate impersonates another candidate, or a candidate permits himself/herself to be impersonated.
- iii) A candidate improperly obtains knowledge of examination papers prior to the examination.
- iv) A candidate starts to write any notes or answer any question without permission or announcement before the examination starts, or a candidate who continues to write after the invigilator has announced the completion of the examination.
- v) A candidate is found to have any unauthorized article(s)/material(s) on/in the examination desk or on his/her person.
- vi) A candidate communicates or attempts to communicate improperly with any person inside or outside the examination venue.
- vii) A candidate uses any unauthorized notes, books or electronic devices, e.g., smart phones and watches, electronic dictionaries, etc.
- viii) A candidate copies from the work of another candidate.
- ix) A candidate leaves and enters the examination venue without permission.
- x) A candidate persists in causing noise/disturbance to other candidates after a warning.

## 9. Disturbance

In the case of disturbance during an examination, e.g., very loud external noise, the invigilator may authorize additional time after the scheduled time given.

## 10. Supplementary/Re-Sit Examination

- a. Supplementary Examination
  - i) A candidate who is not able to attend an examination due to sickness or any other special reason as approved by the Dean/Director of his/her academic unit may apply for a supplementary examination. If medical set up is required in the examination venue, he/she will have to submit medical certificate(s) or other supporting document(s) issued by a hospital recognized by the Government. All charges will be borne by the candidate.
  - ii) A student who is absent from an examination will be requested to submit a written request with valid reasons, under normal circumstances, to the academic unit concerned within seven working days from the date on which the examination is held.
  - iii) A candidate will lose his/her right to apply for a supplementary examination if

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(10.a.ii)) is not fulfilled.

- b. Supplementary examinations are normally held two weeks after the end of the final examination period.
- c. Fee for Supplementary Examination  
Administrative fee will be charged for the supplementary examination and no action will be taken to update the student record if payment is not settled. Please refer to the Table of Fees for the relevant charges.
- d. Re-Sit Examination  
Resit examinations are not applicable to students admitted or resuming in academic year 2016/2017 onwards.

## **11. Appeal**

- a. A candidate requesting a review of his/her examination performance will commence his/her appeal by sending to the office of his/her academic unit a letter stating the grounds of the review and presenting relevant evidence within three weeks of the issue of the academic reports.
- b. A complaint about the academic judgment of an examiner or an Academic Council/Pedagogic Committee cannot be considered as valid grounds for an application for review.
- c. Every appeal case will be reviewed through the Academic Council/Pedagogic Committee only once and their conclusion will be the final decision of the case.
- d. The academic unit concerned will inform the student in writing of the decision in each case.
- e. Under no circumstances will the examination script be released.

## **12. Cognizance of Examination Rules**

Every candidate will be deemed to have both understood and accepted these examination rules.



ACADEMIC REGULATIONS AND RULES

# Student Disciplinary Regulations of the University of Macau

(Approved by the University Council on 25 June 2014)

## Article 1 Competence

1. These Internal Regulations are established by the University Senate in accordance with the provisions of Article 37 of the Charter of the University of Macau approved by the Executive Order No. 14/2006.
2. For the efficient performance of the power conferred by Sub-item (17) of Item 1 of Article 36 of the Charter of the University of Macau, approved by the Executive Order No. 14/2006, by virtue of the circumstances of any student disciplinary offence, the University Senate delegates the relevant power to the following authorities for disciplinary actions: Dean of Faculties, Head of Independent Academic Units, Dean of Students, Master of Residential Colleges, or the Student Disciplinary Committee.

## Article 2 Scope of Application

These regulations apply to all students of the University of Macau.

## Article 3 Offences

1. Any one of the following acts is considered as a disciplinary offence:
  - 1) any conduct seriously disturbing teaching, study, research, other academic activities, or operations of the University;
  - 2) any misuse of the facilities of the University, or unauthorized entry into or occupation of the reserved facilities of the University;
  - 3) any conduct detrimental to the reputation, liberty, safety or privacy of any member of the University (faculty, staff, students);
  - 4) any conduct detrimental to the reputation of the University;
  - 5) theft of or voluntary damage to the property of the University and its members;
  - 6) falsification or misuse of documents or records of the University;
  - 7) any form of cheating in assignments, tests, examinations, or violation of any of the regulations governing the conduct of examinations;
  - 8) any form of plagiarism in academic work;
  - 9) any misrepresentations or false statements made in any application or documents submitted to the University;
  - 10) failure to comply with directions of the University.
2. The nature, circumstances and consequences of the offences and the attitude of the offender shall be taken into consideration in imposing penalties.

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#### **Article 4**

##### **Disciplinary Authorities and Proceedings**

1. The disciplinary authorities include: Dean of Faculties, Head of Independent Academic Units, Dean of Students, Master of Residential Colleges and the Student Disciplinary Committee.
2. Offences directly related to pedagogic issues shall be addressed to the Dean of the Faculty or Head of the Independent Academic Unit to which the student belongs.
3. Other offences shall be referred to the Dean of Students or Master of Residential Colleges, who shall handle the case or decide to refer it to the Student Disciplinary Committee.
4. The disciplinary authorities shall appoint a panel to investigate the offence or the complaint.
5. The panel shall have a minimum of three members, including representatives of Faculty, Independent Academic Unit or Residential College, Student Affairs Office and students.
6. The panel shall prepare a report not only to present the findings of its investigation but also to recommend related penalties.
7. The report shall be submitted within 10 working days after the appointment to this effect. The disciplinary authority concerned may decide to extend the time limit for the submission of the report for another 10 working days.
8. The related authority shall notify the student concerned in writing about the alleged offence in due course. The student may defend himself/herself within 10 working days after receiving the notification.
9. The disciplinary authority may require the student concerned to attend a hearing, or the student is entitled to request a hearing in his/her written defence. The disciplinary authority may also require other persons related to the offence to attend a hearing.
10. Default of the student shall not affect the decision made by the disciplinary authorities.
11. The disciplinary authority shall decide the case within 10 working days after hearing or receiving the student's defence. If additional proceedings are justified, the said period may be extended for another 10 working days.
12. All decisions made by disciplinary authorities shall be communicated in writing to the student concerned and recorded by the University.
13. The time limit for initiating disciplinary proceedings is one year after the offence was committed.

#### **Article 5**

##### **Decision on Penalties Imposed by Disciplinary Authorities**

1. The disciplinary authorities shall impose one or a combination of the following penalties on a student who has committed the offences defined in Article 3:
2. Penalties:

- 1) attend educational or community programmes as deemed appropriate;
  - 2) receive verbal or written warning;
  - 3) make restitution or compensation, where applicable;
  - 4) receive suspension from class, any academic or other student rights, benefits, privileges and/or rights of using facilities for a specified period of time;
  - 5) record demerit(s);
  - 6) result in expulsion.
3. A total of three written warnings will result in one demerit.
  4. A total of three demerits may result in expulsion from the University.
  5. Any case which may result in expulsion shall be reviewed by the Student Disciplinary Committee. Case of expulsion from the University shall be approved by the Rector.

### **Article 6 Accessory Penalties**

The relevant authorities may impose accessorially the suspension or the loss of scholarship, prizes or other academic rights or benefits of the student.

### **Article 7 Student Disciplinary Committee**

1. The Student Disciplinary Committee is a standing committee of the University Senate and the members shall be appointed by the University Senate.
2. The Student Disciplinary Committee is a disciplinary authority which shall review and comment on any expulsion cases and review cases handled by Dean of Faculties, Head of Independent Academic Units, Dean of Students, or Master of Residential Colleges.
3. The Student Disciplinary Committee may advise and make recommendations on student disciplinary matters of the University.
4. The Student Disciplinary Committee shall reach its decision by a simple majority, meaning more than half of the valid votes cast.
5. The Student Disciplinary Committee shall consist of the following members:
  - 1) The Dean of Students, who shall be the Chair;
  - 2) The Registrar or his/ her representative;
  - 3) Two full or associate professors, recommended by the Rector;
  - 4) One administrative unit head, recommended by the Rector;
  - 5) One representative of the University of Macau Students' Union.
  - 6) One representative of the University of Macau Postgraduate Association.
6. The Student Affairs Office shall provide the Student Disciplinary Committee with the necessary technical and administrative support.
7. Conflict of interest with the student under investigation shall be avoided in the formation of the Student Disciplinary Committee:
  - 1) All members shall have no conflict of interest with the student;
  - 2) Members listed in Sub-items 1), 2), 5) and 6) above shall be represented by their

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delegate should they have any conflict of interest with the student, the delegate shall be appointed by the Rector.

### **Article 8**

#### **Appeal Process**

1. An appeal against the decision that results in penalty imposed by the disciplinary authorities may be submitted to the Student Disciplinary Committee within 10 working days. Appeals must be in writing.
2. The Student Disciplinary Committee shall appoint an appeal panel of three members representing faculty, staff and students to handle the appeal case. The panel shall have no previous intervention in that specific case.
3. An appeal against the decision that results in penalty imposed by the Student Disciplinary Committee may be submitted to the Vice Rector (Student Affairs) within 10 working days. Appeal must be made in writing.
4. The Vice Rector (Student Affairs) shall appoint an appeal panel of three members, representing faculty, staff, and students to handle the appeal case. The panel shall have no previous intervention in that specific case.
5. The appeal panel shall review the case and make its recommendation.
6. The decision made by the Vice Rector (Student Affairs) is final.
7. When the decision involves expulsion penalty, the case shall be approved by the Rector.

### **Article 9**

#### **Report to the Academic Unit and Other Authorities**

1. Any penalty imposed on a student shall be reported to the faculty or the Independent Academic Unit concerned and the Student Affairs Office or the Residential College. The record of the student will be taken into consideration before the award of any scholarship, prize and/or privilege.
2. Any penalty imposed on a student may be shared with the parents or guardians of the student depending on the nature of the case.
3. According to the law, any criminal or serious case shall be reported to the Rector and the authorities of justice of the Macao Special Administrative Region.

### **Article 10**

#### **Confidentiality**

All the information of student disciplinary cases is strictly confidential. Disclosure of such information must be duly justified and approved by the Student Disciplinary Committee or the Vice Rector (Student Affairs) in writing.

**Article 11**  
**Revision**

These regulations are subject to revision by the University Senate.

**Article 12**  
**Other Specific Regulations and Rules**

These Student Disciplinary Regulations do not prejudice the application of other specific regulations and rules and the penalties of academic and administrative units that are approved according to the regulations of the University.

## Rules on Handling Student Academic Dishonesty

(Approved by the Rector on 06 December 2011)

### I. Types of Academic Dishonesty

This section aims to provide UM students an understanding of the most common types of academic dishonesty, with a focus on plagiarism.

Academic dishonesty may be broadly defined as any fraudulent actions or attempts by a person to use unauthorised or unacceptable means in any academic work. It is any type of cheating that occurs in relation to an academic exercise and can come in many different forms including cheating, fabrication, collusion, and plagiarism.

The following are some examples of academic dishonesty. These examples, however, are by no means exhaustive:

1. **Cheating** is intentionally using or attempting to use unauthorised materials, information, or study aids in any academic exercise. It includes but is not limited to:
  - Copying from another student during an exam or on an assignment;
  - Giving or receiving information during an exam;
  - Using unauthorised material during an exam;
  - Obtaining exam questions and/or answers from a student who has already taken the exam;
  - Asking someone to take an exam or write a paper on his/her behalf;
  - Collaborating on homework assignments, take-home tests and quizzes without authorisation from the instructor;
  - Submitting the same paper/thesis, or substantial portions of the same paper/thesis, for credit or degree more than once.
2. **Fabrication** is the invention or falsification of sources, citations, data, or results and recording or reporting them in an academic exercise. Examples include:
  - Citing a source that does not exist;
  - Making up or falsifying evidence or data or other source materials;
  - Falsifying research papers or reports by selectively omitting or altering data that do not support one's conclusions or claimed experimental precision.
3. **Collusion** is facilitation of dishonesty by helping other students engage in academic dishonesty. Though the facilitator may not benefit personally from providing assistance to another, the facilitator's act similarly violates academic integrity. Examples of collusion include:
  - Knowingly or negligently allowing one's work to be used by other students without prior approval from the instructor;
  - Knowingly allowing others to copy answers in exams, tests and other assignments;
  - Taking an exam or writing a paper for another student.
4. **Plagiarism** is defined as the appropriation of another person's ideas, processes, results or words without permission and/or due acknowledgment. It covers all forms of work submitted to the University for assessment (assignments, essays, take-home examinations, projects, theses and all other forms of coursework). Plagiarism is intellectual theft. When using another person's words, ideas or results, whether such words, ideas or results have been published or not, one must obtain permission and/or give that person appropriate credit, or else one will be stealing the intellectual property belonging to another.

## II. Plagiarism

Plagiarism has become more serious with the relative ease of reproducing information that is readily available from the Internet. Students have been discovered to have 'cut and pasted' materials from various electronic sources and passed them off as their own. In academia, plagiarism is regarded as academic dishonesty and a serious offence. Like other forms of academic dishonesty, students who have committed plagiarism will face disciplinary measures ranging from an F grade to expulsion from the University. Students are expected to read the Regulations of the Student Discipline of the University of Macau for the mechanism for handling student disciplinary cases.

Some students have claimed that they were not aware of committing plagiarism. Inadvertent plagiarism is nonetheless considered an offence. Lack of awareness is no excuse, and plagiarism, whether intentional or inadvertent due to ignorance or carelessness, is still a violation of academic integrity. After all, plagiarism is a simple concept of copying without proper acknowledgement. The University has made the Rules easily accessible and all students are expected to read and follow it. If any student has any questions about plagiarism or other issues pertaining to academic integrity, he/she should consult the instructor.

We must be careful to recognise the people from whom we borrow ideas, just as we expect others to acknowledge the ideas that we ourselves have worked hard to develop. To avoid plagiarism, every direct quotation must be identified by quotation marks or appropriate indentation and both direct quotation and paraphrasing must be cited properly according to the accepted format for the particular discipline or as required by the instructor in a course.

Obviously, if you make a copy of an assignment done by a classmate and submit it as your own, you are guilty of plagiarism but there are many other forms of plagiarism. Some common examples of plagiarism are:

1. Verbatim plagiarism or word-for-word plagiarism  
The most common type of plagiarism is copying word for word from a source (e.g. the published works, the essays or theses of other persons, etc.) without using quotation marks and without citing the source. Even if you add some words of your own around the text that you copied directly from a source, you must identify the quote by placing quotation marks around it in order to distinguish it from your own words, and you must also acknowledge the source by providing a citation.
2. Substantial copying with minor modifications  
If you reproduce another person's text with only minor changes, such as adding/deleting a few words, rearranging the order of words or phrases, and changing the sentence structure (e.g. using passive voice to replace active voice in the original), and do not give proper attribution, you are committing plagiarism.
3. Mosaic plagiarism  
If you copy phrases or sentences from a source or a variety of sources or merely change a few words here and there, and then join those bits and pieces together without carefully identifying the quotes with quotation marks and citing the sources, the result is a mosaic of other people's ideas and words. You are responsible for making clear distinctions between your ideas and the ideas of the others who have informed your work and for following the correct citation style to avoid plagiarism.
4. Apt phrase  
If you use an author's distinctive term or phrase without proper attribution, it is plagiarism. If you want to use the author's original words, you must put those words in quotation marks and provide a citation.

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## 5. Paraphrase

Paraphrasing means taking another person's ideas and putting those ideas in your own words. Paraphrasing does not mean replacing a word or two in someone else's sentence with synonyms. When you paraphrase, your task is to distill the source's ideas in your own words and restate the ideas in your own words. It is a fine way to use another person's ideas to support your own argument as long as you attribute the material to the author and cite the source. However, if you rephrase someone else's text in your own words without attribution, you will be representing someone else's ideas as your own and that is plagiarism.

The rule of thumb here is simple: Whenever you use published ideas that are not your own, you need to give credit to the source and cite properly according to the accepted format for the particular discipline or as required by the instructor in a course (For unpublished ideas, on top of the above, you need to obtain permission from the author(s).). Make sure that the sources are properly referenced. Plagiarism occurs when you present as your own work, without due acknowledgment, any material that was obtained from another source, regardless of how or where you acquired it, and regardless of whether you committed plagiarism intentionally or unintentionally.

It is every student's duty to find out what plagiarism is. The University has set out these rules to provide more information but the above illustrations may not cover every situation. There are books explaining plagiarism and guides to referencing in the UM Library. If you feel uncertain about what constitute plagiarism and how to avoid it, consult your instructor or the Librarian.

Advanced technology has made plagiarism easier. At the same time, advanced technology has also made detection of plagiarism easier for instructors. It is highly likely that your fellow classmates are also referring to the same texts, and your instructor has probably read the sources before reading your paper. When you copy, the shift in writing style will also be obvious to your experienced instructor. Avoid plagiarism by all means. The University would like to remind all students that plagiarism is theft of someone else's work and it ruins the purpose of education. If you resort to copying due to pressure to meet assignment deadlines or insufficient understanding of the subject, or if you have difficulty in writing your paper and citing your sources properly, consult your instructor.

Submission of assignments, papers and theses electronically via UM's e-learning management system, namely UMMoodle, or another software system as prescribed by the University, is strongly advised across the entire University. With the integration of UMMoodle and the plagiarism prevention tool, Turnitin, made available to all UM teachers, instructors can now more easily evaluate the originality of students' works by comparing them with online sources and Turnitin-owned sources. For postgraduate theses, supervisors and examination committees at UM are strongly advised to check the submitted theses using the designated plagiarism detection software before proceeding with an examination even if the theses have not been submitted via UMMoodle. Should any student feel uncertain about how to submit assignments and theses via UMMoodle, please consult one of the UM staff members at the helpdesk of the Information and Communication Technology Office.

Effective from 1 January 2012, it is a university-wide requirement for students to submit a signed statement together with their theses (and other assignments as requested by individual teachers) to declare that they have not committed any type of academic dishonesty in their works and that they have included proper citations for all those materials extracted from other sources (see below a template for such a self-declaration). It is students' responsibility to ensure that they have not committed any type of academic dishonesty, instead of waiting for their instructors to check and 'police' them.



## Self-declaration template:

I declare that the thesis/assignment here submitted is original except for the source materials explicitly acknowledged and that this thesis/assignment, or parts of this thesis/assignment have not been previously submitted for the same degree/course or for a different degree/course.

I also acknowledge that I am aware of the Rules on Handling Student Academic Dishonesty and the Regulations of the Student Discipline of the University of Macau.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Student ID Number

\_\_\_\_\_  
Programme/Course Code

### III. Procedures for Handling Student Academic Dishonesty

1. If the instructor suspects a student of committing an act of academic dishonesty in any academic exercise submitted for assessment, he/she can meet with the student individually and impose sanction(s) as appropriate except those as prescribed by the relevant regulations, if he/she believes that the nature of such act is not serious.
2. If the instructor suspects that a student has committed an act of academic dishonesty in any academic exercise submitted for assessment and considers the case more serious or complicated to be handled by himself/herself:
  - a. The instructor should report the matter as soon as possible, together with any relevant evidence, to his/her Department Head concerned or Programme Coordinator concerned in the absence of a Department Head;
  - b. The Department Head/Programme Coordinator should attach his/her comments, if any, and forward the case to the Dean/Director for handling.
3. The Dean/Director or his/her delegate should meet with the student and any other relevant parties to investigate.
4. After the meeting with the student and any other relevant parties, if the Dean/Director or his/her delegate is satisfied that no act of academic dishonesty has been committed, no further action will be taken and the case will be closed. A written report of the case should be kept by the academic unit concerned for record purpose.
5. If the student is proven guilty of the alleged offence, the Dean/Director may impose the following sanction, according to Item 1 of Article 5 of the Regulations of the Student Discipline of the University of Macau, either singly or in combination as deemed appropriate, and the result will be reported in writing to the Student Disciplinary Committee for record:

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- a. Verbal or written warning;
    - b. Reprimand;
    - c. Restitution or compensation, where applicable;
    - d. Suspension of any academic or other student rights, benefits, privileges and/or rights of using facilities for a specified period of time;
    - e. Recording a demerit.
  6. The Dean/Director should inform the student in writing of the judgment and the sanction(s) and send the notification to the student by registered mail. The Dean/Director should also inform the Department Head/Programme Coordinator concerned of the disciplinary decision in writing. The case will then be closed at the academic unit level.
  7. If more severe sanctions are deemed necessary, the case will be sent to the Student Disciplinary Committee via the Dean/Director in accordance with Item 2 of Article 5 of the Regulations of the Student Discipline of the University of Macau, for the Committee to decide on the appropriate sanction. The composition of such Committee shall be defined by Item 1 of Article 9 of the Regulations of the Student Discipline of the University of Macau.
  8. Under the following circumstances, the academic unit may consider bringing the case to the Student Disciplinary Committee for further investigation and decision:
    - a. The Dean/Director or his/her delegate believes that he/she is not able to make a decision based on the available evidence;
    - b. The case is too severe or complicated to be handled by the academic unit concerned;
    - c. The case involves persons who are not members of the university community.
  9. If the Student Disciplinary Committee finds the student not guilty after an investigation, the case will be closed. A written report of the case should be kept by the Student Disciplinary Committee and a copy shall be sent to academic unit concerned for information and record.
  10. If the Student Disciplinary Committee finds the student guilty of academic dishonesty after an investigation, it may impose, apart from the sanctions in 5 (b)-(e) above, the following sanction in accordance with Item 1 of Article 6 of the Regulations of the Student Discipline of the University of Macau, either singly or in combination as deemed appropriate:
    - a. Suspension from the University for a specified period of time;
    - b. Expulsion from the University.
  11. Under special circumstances and subject to approval by the relevant authority, the Rector may impose on students/graduates sanctions which are not stipulated in the internal regulations and rules of the University of Macau, including but not limited to:
    - a. An F grade for the course taken;
    - b. Removal of course credits;
    - c. Retraction of a qualification granted by the University.
  12. In deciding on the sanction, the nature and gravity of the offence should be taken into account (such as the amount of work plagiarized, whether the offence is premeditated, etc.). The number of previous offences also needs to be taken into account. More serious punishments should be imposed for repeated offences.
  13. The Student Disciplinary Committee should inform the student in writing of the judgment and the sanction(s) and send the notification to the student by registered mail. The Student Disciplinary Committee should also inform the Dean/Director concerned, the Registrar and the Dean of Students of the disciplinary decision in writing.
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14. Any sanction imposed on a student according to the Regulations of the Student Discipline of the University of Macau should be filed with the academic unit concerned and kept as part of the student's file.
15. To denote that the student has committed an academic offence in the course, a notation of academic dishonesty can be included on the student's transcript, at the discretion of the Student Disciplinary Committee. At the discretion of the academic unit concerned or the Student Disciplinary Committee, the student may be informed that the notation will be removed at graduation if he does not commit more than one offence. However, if he commits two or more offences, during the same term or in different terms, the notation will appear on the official transcript permanently.
16. An appeal against any fact finding or any sanction imposed by the Dean/Director may be made within 10 working days to the Student Disciplinary Committee according to Item 1 of Article 10 of the Regulations of the Student Discipline of the University of Macau. Appeals must be in writing and the proceeding and final decision with respect to the appeal should follow the stipulations in Items 5 to 8 of Article 4 of the Regulations of the Student Affairs of the University of Macau.
17. An appeal against any fact finding or any sanction imposed by the Student Disciplinary Committee may be made within 10 working days to the Rector according to Item 1 of Article 11 of the Regulations of the Student Discipline of the University of Macau. Appeals must be in writing and the composition of the appeal panel, the proceeding and final decision with respect to the appeal shall follow Items 3-5 of Article 11 of the Regulations of the Student Affairs of the University of Macau.

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# **Undergraduate Curriculum Model & General Education Programme**

# Undergraduate Curriculum Model & General Education Programme

The following undergraduate curriculum model is implemented in academic year 2019/2020 onwards:

Course Types		No. of Credits
1.	Major (CM + RE)	40 – 66
2.	Community and Peer Education (CPE)	3
3.	Languages and Skills <sup>^</sup> (L&S)	3 – 15
4.	General Education (GE)	24 – 27
5.	Free Elective (FE)	9 – 50
<b>Minimum Credit Requirement</b>		<b>120</b>

<sup>^</sup> Students who test out of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s).

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## Community and Peer Education

The Community and Peer Education courses focus on experiential learning. They are run jointly by the Faculties and the Residential Colleges (RC).

Community and Peer Education Courses	No. of Credits	Suggested Year Level
CPED1000 - Residential College Experiential Learning	1	1
CPED1001/1002 - Physical Education I/II	0.5 each	1
CPED2001 - Residential College Community Team Project	1	2

## Languages and Skills

Languages and Skills is one of the components in the undergraduate curriculum model. It includes 0-9 credits of English language courses, 0-3 credits of Chinese and Portuguese language courses, and 3 credits of Information Technology course. Students can test out of some of the language course(s) but will be required to make up the credits by taking additional Free Elective(s).

Languages and Skills Courses	No. of Credits
<b><sup>1</sup> English Language</b>	
<b>University English</b>	
EELC1011 - University English I	3
EELC1012 - University English II	3
EELC1013 - University English III	3
<b>Academic English</b>	
EELC2008 – Academic English: Speaking	3
EELC2009 – Academic English: Writing	3
EELC2010 – Academic English: Project-based Learning	3
<b>English for Specific Academic Purposes</b>	
EELC2011 – English Speaking for Academic Research	3
EELC2012 – English Writing for Academic Research	3
EELC2013 – English Integrated Skills for Academic Research	3
<b><sup>2</sup> Chinese or Portuguese Language</b>	
CHLL1000 - University Chinese	3
PORT1000 - Portuguese Language I – Introductory Portuguese	3
<b><sup>3</sup> Information Technology</b>	
CISC1000 - Information Technology Fundamentals and Practices	3

<sup>1</sup> Please refer to the Registry's website (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>) for details about the course requirements of English language courses.

<sup>2</sup> Students can choose either Chinese or Portuguese language.

<sup>3</sup> Students cannot test out of the Information Technology course.

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## General Education Programme

Students are required to fulfil the General Education requirement as follows: (Please refer to the Registry's website (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/general-education/2017-2018/framework/>) for the most updated list of General Education courses.)

General Education Courses	No. of Credits	Suggested Year Level
<b><i>Global Awareness</i></b>		
<sup>1</sup> GEGA1000 - Macao and Chinese Civilization in a Global Context	3	1
GEA1001 - Language and Globalisation	3	1
GEA1003 - Global Justice and the Creative Economy	3	1
GEA1004 - Global History of Medicine	3	1
GEA1006 - Green Energy for Global Society	3	1
GEA1007 - Nutrition in Health and Disease	3	1
GEA1008 - Politics in Portuguese-Speaking Countries	3	1
GEA2001 - Greater China and the Global Economy	3	2
GEA2002 - Education and Globalization	3	2
GEA2003 - Global Media	3	2
GEA2004 - Intercultural Communication	3	2
GEA2007 - Empires and Overseas Expansion	3	2
GEA2008 - History of Globalization	3	2
GEA2010 - Migration and Multicultural Society	3	2
GEA3000 - Global Business and Cultures	3	3
GEA3001 - Understanding International Politics	3	3
GEA4000 - Global Politics and Wealth	3	4

<sup>1</sup> Compulsory General Education course for students.



General Education Courses	No. of Credits	Suggested Year Level
<b>Literature and Humanities</b>		
<sup>1</sup> GELH1000 - Chinese Language and Culture	3	1
<sup>2</sup> GELH1010 - Chinese Language and Culture (for International Students)	3	1
GELH1001 - Chinese Languages and Chinese Communities	3	1
GELH1002 - Popular Literature and Life	3	1
GELH1003 - Contemporary Artistic Expressions in the Portuguese-Speaking World	3	1
GELH1004 - Portuguese-Speaking Countries in Contemporary World	3	1
GELH1007 - Visual and Performing Arts - Dance	3	1
GELH1008 - Trade, Empire and Globalization	3	1
GELH1009 - Athens and Jerusalem: Pillars of Western Civilisation	3	1
GELH1011 - Philosophy and Humour	3	1
GELH1012 - Art Appreciation: A Close Reading of Masterpieces	3	1
GELH2000 - Creativity and Writing: English for a Global Readership	3	2
GELH2001 - Sex and the Arts	3	2
GELH2002 - The Holocaust, Genocide and Human Rights	3	2
GELH2003 - Visual and Performing Arts – Drama	3	2
GELH2004 - Visual and Performing Arts – Music	3	2
GELH2005 - Visual and Performing Arts – Visual Art	3	2
GELH2006 - Dialogue with the Past: Human Memories in Arts, Literature, Films, and Material Cultures	3	2
GELH2007 - History of Western Civilization	3	2
GELH2008 - Asian Values and Moral Traditions	3	2
GELH2009 - Creativity for the 21 <sup>st</sup> Century	3	2
GELH2010 - Portuguese Language in Asia	3	2

<sup>1</sup> Compulsory General Education course for students who understand Chinese.

<sup>2</sup> Compulsory General Education course for students who do not understand Chinese.

General Education Courses	No. of Credits	Suggested Year Level
<b>Science and Technology</b>		
<sup>1</sup> GEST1001 - Quantitative Reasoning for Business	3	1
<sup>2</sup> GEST1002 - Quantitative Reasoning for Social Sciences	3	1
<sup>3</sup> GEST1003 - Quantitative Reasoning for Health Sciences	3	1
<sup>4</sup> GEST1004 - Quantitative Reasoning for Science and Technology	3	1
GEST1005 - Internet, Business and Society	3	1
GEST1006 - Logic and Reasoning for Business	3	1
GEST1007 - Fun in Health Science	3	1
GEST1008 - Exploring the Earth	3	1
GEST1009 - Multimedia Technology in Modern Society	3	1
GEST1010 - Chemistry and Modern Society	3	1
GEST1011 - Environmental Science	3	1
GEST1012 - Electricity and Life	3	1
GEST1013 - Mathematics in Modern Society	3	1
GEST1014 - Mysteries of the Universe	3	1
GEST1015 - Physics and Modern Society	3	1
GEST1016 - Mystery of Chemistry	3	1
GEST1017 - Modern Drug Discovery: Drugs and Health	3	1
GEST1018 - Nutrition and Food Safety	3	1
GEST1019 - Microelectronic Chip Technology in Daily Life	3	1
GEST2000 - Active Lifestyles, Wellness and Sports Science	3	2
GEST2001 - Biology in Our Daily Life	3	2
GEST2002 - Psychology and Health	3	2
GEST2003 - Exploring Chinese Medicine	3	2

<sup>1</sup> Compulsory General Education course for FBA students.

<sup>2</sup> Compulsory General Education course for FAH, FED (except for Bachelor of Education in Mathematics), FLL (Bachelor of Law in Chinese Law and Global Legal Studies) and FSS students.

<sup>3</sup> Compulsory General Education course for FHS (except for Bachelor of Science in Bioinformatics (BIF19) admitted in academic year 2021/2022 or earlier) students.

<sup>4</sup> Compulsory General Education course for FED (Bachelor of Education in Mathematics), FHS (Bachelor of Science in Bioinformatics (BIF19) admitted in academic year 2021/2022 or earlier) and FST students.

General Education Courses	No. of Credits	Suggested Year Level
<b><i>Society and Behaviour</i></b>		
<sup>1</sup> GESB1000 - Ethics, Values, Law and Society <ul style="list-style-type: none"> <li>GESB1001 - Applied Ethics</li> <li>GESB1002 - Foundations of Moral Values</li> <li>GESB1003 - Law and Society</li> </ul>	3	1
<sup>2</sup> GESB1017 - Law and Society	3	1
<sup>3</sup> GESB1018 - Law and Society (for International Students)	3	1
GESB1004 - Development of Games and Gambling	3	1
GESB1005 - Macao Law and its Real-Life Applications	3	1
GESB1006 - Economics of Everyday Life	3	1
GESB1007 - Understanding Macroeconomic Policies	3	1
GESB1008 - Understanding Government	3	1
GESB1009 - Personal Growth	3	1
GESB1011 - Courtship, Marriage and Family	3	1
GESB1012 - Critical Problems in Contemporary Society	3	1
GESB1013 - Everyday Statistics	3	1
GESB1014 - Psychology and Intelligent Technology	3	1
GESB1015 - Adolescence: Beyond Storm and Stress	3	1
GESB1016 - Governance in China	3	1
GESB1019 - Pop Culture in East Asia	3	1
GESB2000 - Personal Finance and Wealth Management	3	2
GESB2001 - Food, Eating and Culture	3	2
GESB2002 - Business, Society and Entrepreneurship	3	2
GESB2003 - Creativity and Marketing	3	2
GESB2004 - Public Speaking	3	2
GESB2005 - Art and Society	3	2
GESB2006 - Understanding Population	3	2
GESB2009 - Smart Tourism and Leisure Travel Behaviour	3	2

<sup>1</sup> Compulsory General Education course for students admitted in AY2024/2025 or earlier.

<sup>2</sup> Compulsory General Education course for students admitted in AY2025/2026 and onwards who understand Chinese.

<sup>3</sup> Compulsory General Education course for all students admitted in AY2025/2026 and onwards who do not understand Chinese.

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# Rules Governing General Education Programme

(Approved by the Rector on 10 February 2017)

1. The number of required GE Programme credits is 24 to 27 credits depending on the individual Faculty/Programme. The distribution of GE credits among the four GE areas can be designed by individual Faculty/Programme.
2. Students must complete four compulsory GE courses:
  - Macao and Chinese Civilization in a Global Context in area of Global Awareness (3 credits)
  - Chinese Language and Culture in area of Literature and Humanities (3 credits)
  - Quantitative Reasoning in area of Science and Technology (3 credits)
  - Law and Society in area of Society and Behaviour (3 credits)
3. In addition to the four compulsory courses, students are required to complete the remaining GE credits (12 to 15 credits) among the four areas.
4. GE course credits cannot be double counted to satisfy other University or Faculty/Programme credit requirement.
5. There are no GE substitution courses in this GE model.
6. Students registered in the old programmes (2016/2017 or before) will be allowed to take the new GE courses to fulfil the GE requirement if there is a mapping area for 2011/2012 model.
7. Students registered in this curriculum model will be allowed to take any additional GE courses to fulfil the free elective requirement.
8. Students must observe any additional rules on GE courses selection imposed by their Faculties/Programmes.

## Course Description

### Community and Peer Education

#### **CPED1000 RESIDENTIAL COLLEGE EXPERIENTIAL LEARNING**

This course is designed to enrich first-year students to collegial life, living and learning opportunities, and residential colleges learning goals at the University of Macau. It provides active learning opportunities which enable students to take responsibility for their transition to university and RC life. The course also serves the function of forming student learning communities, which, facilitated by RC faculty, encourage students to explore a wide range of experiential learning activities in RC competency areas (Citizenship with Global Perspective, Cultural Engagement, Healthy Living, Interpersonal Relations and Teamwork, Leadership and Service) while documenting and assessing their personal growth in an e-portfolio.

Pre-requisite: None

#### **CPED1001/1002 PHYSICAL EDUCATION I/II**

Physical Education consists of theory of fitness (Part I) and basic sport concepts, knowledge and skill practice in team sport and individual sport (Part II).

Part I covers sport relevant concepts including the function of sports in life, sports injury prevention & treatment and sport knowledge. Students will learn theory, principle and regulation in fitness and know how to do exercise and workout regularly.

Part II focuses on skill-based physical fitness which includes one team sport and one individual sport.

Students will be guided to apply the concept of fitness sport theory and game strategy with skill when they learn sports for participating in sport and sport practice continuously.

Pre-requisite: None

#### **CPED2001 RESIDENTIAL COLLEGE COMMUNITY TEAM PROJECT**

This course offers students practical experience in communication and leadership through experiential learning in a community team project. Students of different majors will complete a creative team project on an assigned topic to promote specific positive values pertaining to RC character education to an identified audience in the society under the supervision of RC academic staff and the support of community partner(s). They need to acquire related knowledge of the positive values and the targeted audience as active learners themselves during the process. The student teams need to document their project outcomes in electronic form and make physical or online presentations reflecting on the learning process of the team project.

Pre-requisite: None

### Languages and Skills

#### *English Language*

#### **EELC1011 UNIVERSITY ENGLISH I**

This is a one-semester Academic English course for elementary English language level students. Students have six class hours, one tutorial hour and an e-learning requirement. This course introduces basic academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate elementary level. Simple academic texts and discipline-

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related materials enhance students' accurate use of basic grammar structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides a foundation for students to develop the academic English skills and abilities necessary for studying at the university level in English.

Pre-requisite: None

### **EELC1012 UNIVERSITY ENGLISH II**

This is a one-semester Academic English course for low-intermediate English language level students. Students have six class hours, one tutorial hour and an e-learning requirement. This course improves and consolidates academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate low-intermediate level. Short academic texts and discipline-related materials enhance students' accurate use of more complex grammar and text structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides practice for students to develop the academic English skills and abilities necessary for studying at the university level in English.

Pre-requisite: EELC1011 or a required score in a placement test

### **EELC1013 UNIVERSITY ENGLISH III**

This is a one-semester Academic English course for intermediate English language level students. Students have three class hours. This course develops and reinforces academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate intermediate level. Academic texts and discipline-related materials enhance students' confident use of appropriate grammar and text structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides students with the academic English skills and abilities necessary for studying at the university level in English.

Pre-requisite: EELC1012 or a required score in a placement test

### **EELC2008 ACADEMIC ENGLISH: SPEAKING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in previous University English or Academic English course(s). Additionally, students will learn to use introductory academic speaking skills. These skills include: logical persuasion, information sharing, meeting facilitation, impromptu speaking, and responding to questions. Students are expected to analyze sample academic speeches/presentations for discipline-specific academic features in preparation for advanced academic speaking. Depending on students' disciplines, they will be introduced to different genres in academic speaking (e.g. oral reports, persuasive/informative speeches, poster presentations, discussions, and oral reflections, etc.).

Pre-requisite: EELC1013 or a required score in a placement test

### **EELC2009 ACADEMIC ENGLISH: WRITING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in University English or Academic English course(s). Additionally, students will learn to use introductory academic writing skills. These skills include: writing summaries and responses, conducting secondary research, evaluating sources, documenting the research process, considering the rhetorical situation, making an argument, paraphrasing from sources, using academic language, and writing coherently. Students are expected to analyze sample academic text for discipline-specific academic features in preparation for advanced academic writing. Depending on students' disciplines, they will be introduced to different genres in academic writing (e.g. essays, reports, case studies, research proposals, book reviews, literature reviews, reflective writing, etc.).

Pre-requisite: EELC1013 or a required score in a placement test

### **EELC2010 ACADEMIC ENGLISH: PROJECT-BASED LEARNING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in University English or Academic English course(s). In groups, students will learn to use introductory academic writing and speaking skills to design and implement their multigenre/multimodal projects. These skills include: primary/secondary research, critical thinking skills, problem-solving skills, writing/presentation skills, teamwork, etc. Through experiential learning, students will be guided to observe, collect information, persuade, and generate a writing/speaking product.

Pre-requisite: EELC1013 or a required score in a placement test

### **EELC2011 ENGLISH SPEAKING FOR ACADEMIC RESEARCH**

This is a one-semester academic speaking course for students with an upper-intermediate English language level. Students have three class hours every week. The course also addresses the information literacy and higher-order thinking skills necessary for conducting extensive secondary research, constructing ideas, providing evidential support, and structuring ideas coherently in spoken academic settings. Students develop both verbal and non-verbal communication in small and large group academic settings. Students will critically evaluate their own and others' performances, and will learn how to utilize a variety of technology enhanced communication tools. Other skills addressed in this course include critical thinking and argumentation.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

### **EELC2012 ENGLISH WRITING FOR ACADEMIC RESEARCH**

This is a one-semester academic writing course for students with an upper-intermediate English language level. Students have three class hours every week. This course addresses the information literacy and higher-order thinking skills necessary for conducting extensive secondary research, providing evidential support, and structuring ideas in coherent written academic texts. Students spend time responding to multiple drafts of peer academic papers to improve precision and clarity in the writing process. Other specific skills addressed in this course are critical thinking and argumentation.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

### **EELC2013 ENGLISH INTEGRATED SKILLS FOR ACADEMIC RESEARCH**

This is a one-semester integrated academic language course for students with an upper-intermediate English language level. Students have three class hours every week. Students will engage in data gathering, analysis and interpretation skills and communicate research results effectively in academic presentation or report formats. Students will critically evaluate their own and others' performances, and will learn to utilize a variety of technology-enhanced tools to aid in preparing and communicating academic concepts and findings. Upon completion, students are expected to have acquired a basic understanding of primary academic research methods and have developed techniques to effectively communicate concepts and research results.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

## ***Chinese or Portuguese Language***

### **CHLL1000 UNIVERSITY CHINESE**

This course covers topics such as characteristics of Chinese language, its significance as one of the global languages, its relationship with Chinese cultures and communities, and its expression in Chinese literature and practical usage. The focus of the last topic may change in accordance with the expertise of individual instructors, possible areas including traditional Chinese poetry, traditional Chinese fiction and drama, modern Chinese literature,

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contemporary Chinese literature, and Chinese literature in the world. This is a discussion-oriented, student-centered course in which all students are expected to engage in class discussions and critical analysis of the reading materials. Those reading materials will be focused on the different diversity courses techniques of those students from different majors. Presentation and communication techniques will also be gained.

Pre-requisite: None

### **PORT1000 PORTUGUESE LANGUAGE I - INTRODUCTORY PORTUGUESE**

Principles of written and oral language. The comprehension and conversation through exercises in the class and language laboratory. The grammar fundamentals obtained through the use of simple pronunciation and reading materials.

Pre-requisite: None

## ***Information Technology***

### **CISC1000 INFORMATION TECHNOLOGY FUNDAMENTALS AND PRACTICES**

This foundational course introduces and explores the impact of information technology (IT) in our modern society. The course is designed to provide the fundamentals and practices for an effective use of IT in our daily lives. The course is divided in three modules:

- Module I introduces the fundamentals of IT, the Internet and the Web, connectivity and mobility, and important issues in computer privacy, security and ethics.
- Module II focuses on application software for computers and mobile devices.
- Module III explores computer hardware and computer software, mobile devices and apps, communication and networking.

Pre-requisite: None

## **General Education Programme**

### ***Global Awareness***

#### **GEGA1000 MACAO AND CHINESE CIVILIZATION IN A GLOBAL CONTEXT**

This GE course will provide an introduction to Macao and Chinese Civilization, by outlining how Macao's unique cultural and social position affected China's contribution to the world. It focuses first on the global processes that impacted the city's development and how this in turn helped shape the course of Chinese history from the sixteenth century (1500s) to the present. Secondly, the course will trace how in this historical context, Chinese values spread globally and interacted with the values of other civilizations. The course will also explore the ethical dimensions of these interactions, highlighting the importance of mutual respect, cultural sensitivity, and the ethical responsibilities that come with global influence. By examining these ethical considerations, students will gain a deeper understanding of the moral complexities involved in cultural exchanges and the impact of these exchanges on global history.

Pre-requisite: None

#### **GEGA1001 LANGUAGE AND GLOBALISATION**

This course introduces students to the interface between language and globalisation with special reference to the expansion of English across the world (especially within Asia) in the current era of globalisation. Students will develop an understanding of historical, economic, political and socio-cultural factors that have influenced the development of English as a global language. They will also acquire basic knowledge of how the forms, meanings and functions of



the English language are appropriated and localized, including theoretical frameworks and analytical approaches.

Pre-requisite: None

### **GEGA1003 GLOBAL JUSTICE AND THE CREATIVE ECONOMY**

Is there and can there be “global justice”? Can someone lie and say the truth, be guilty and innocent, smile and glower, be happy and sad, or happy and poor as well as sad and rich at the same time? What defines and drives the “creative economy”? Is it money and profits, work or satisfaction, or physical or mental labour, efficiency or creativity, or competition or cooperation? And how are global justice and the creative economy intertwined? These are only a few selected questions that point to a deeper problem encountered in the 21st century, which was also referred to as the Age of Paradox (Handy, C., 1995). It is a problem that also connects the two concepts “global justice” and “creative economy”. Already each of the two concepts alone currently poses serious challenges to individuals, municipalities, regions, states as well as the world community as a whole. In combination, the complexity of their meaning rises drastically, often leading to a sentiment of confusion, paralysis, or disorientation. Thus, the challenges they pose are reflected in the many thousand decisions that we take on a daily basis, whether consciously or unconsciously, individually or collectively, as well as wisely or foolishly. The two concepts have in common their nature as, what has been called, “essentially oxymoronic concepts”, which are oxymora, contradictions in terms, or paradoxes. These essentially oxymoronic concepts all share that, by uniting apparently opposite statements or truths, their meaning contains some varying degree of contradictions, which pose a problem to a classical or binary logic of someone being either right or wrong, but not both at the same time. In the case of ‘global justice’, the contradiction can be found in the presumption that “justice” is already difficult to establish within a single country or its legal system and even more so at the global level, with its multitude of different legal systems, cultures and languages. Similarly, the term ‘creative economy’ has evolved from the oxymoron ‘culture industry’, i.e. two terms representing cultural activity on the one hand and economic activity on the other, which in the past were widely regarded as not only separate but also incompatible. Together they give rise to many more such concepts, like “glocalisation”, “coopetition”, or the many “paradoxes of happiness”, which, in line with the unique features of a place like the Macao SAR, will be discussed in the course from a both Eastern and Western perspective.

Pre-requisite: None

### **GEGA1004 GLOBAL HISTORY OF MEDICINE**

Health is a crucial issue in global history. As nobody escapes disease and death, healing traditions have developed in all parts of the world. This course is a fascinating exercise in which we will explore, on the one hand, the development of medical thought, concepts and ideas as well as shifting patterns of medical practices and therapeutic treatments in world history. On the other hand, we will focus on the transmissions, interactions and exchanges of healing traditions, pharmacopeia and related religious worldviews, and this over a space stretching from Europe across Asia, from China and India to West Asia and the Americas. We will reflect on the close relationships between medical thought and the prevailing political, social, economic and cultural conditions that unavoidably shape man’s living conditions. Moreover, we will uncover that there are all-encompassing and cross-cultural parallels showing that civilizations and cultures are not discrete and unalterable units, but have been subjected time and again to external influences and impacts. With a true interdisciplinary and comparative approach and with due attention paid to primary sources this course aims at promoting an awareness of the historical forces that have moulded, and continue to shape, medicine in the world and that help us to reach a deeper understanding of what defines modernity. This general education course is conceived to be an interactive forum in which for some of the individual sessions a selected number of international Eastern and Western specialists in the history of medicine and medical humanities will present their innovative perspectives.

Pre-requisite: None

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### **GEGA1006 GREEN ENERGY FOR GLOBAL SOCIETY**

The course will focus on the challenging issue that our human being is facing – The Energy. The course will talk the importance of energy to our future society, energies in old forms (such as oil and coal) and their detrimental effects, and the solutions to the challenge in the future. The contents will cover all of the green energies, including solar energy, wind energy, hydrogen energy, tidal energy, hydroelectricity, Biomass, Geothermal Power, and others (such as ocean, and hot hydrogen fusion), and energy storage. In addition, topics on air pollution and global warming will be investigated.

Pre-requisite: None

### **GEGA1007 NUTRITION IN HEALTH AND DISEASE**

This course aims to provide the understanding of how nutrition advances are made and a view of the relationship between diet, nutrition and disease in detail. It also introduces the role of nutrition in global health. There is now a large body of evidence demonstrating that the satisfaction of nutritional needs is mandatory to human life. This course includes the dietary causes of chronic diseases related to lifestyle, such as hypertension, coronary heart disease, diabetes, obesity, and cancer. The course covers the methodology used to determine dietary, nutritional and health status and how evidence is gathered to determine the links between diet, nutrition and health.

Pre-requisite: None

### **GEGA1008 POLITICS IN PORTUGUESE-SPEAKING COUNTRIES**

This course has been designed to promote and encourage the Portuguese-speaking countries' (PSC's) scientific study, adopting both perspectives: International Relations and Political Science. The PSC will be organized in three groups (Portuguese-speaking small developing island states, African Portuguese-speaking countries and Ibero-American Portuguese-speaking countries), taking into consideration their intrinsic characteristics and regional location. The study theoretical framework will be grounded in the post-colonial studies, regional development and globalization, and focus on the post-independence political, economic and social developments. Finally, this course also aims to encourage further post-graduate research on PSC in specific or thematic areas.

Pre-requisite: None

### **GEGA2001 GREATER CHINA AND THE GLOBAL ECONOMY**

Greater China includes Mainland China, Hong Kong, Macao and Taiwan. This course introduces to students the background and features of each region within Greater China. It especially covers the social and economic changes of Mainland China in the pre- and post-reform periods, its economic structure, its 5-year plans, and their implications for Asia and the entire world. The reform & opening-up policy, foreign direct investment, and international trade have transformed Mainland China into a significant global trader. Its social and economic integration with Hong Kong, Macao, and Taiwan is being deepened through CEPA, ECFA, and other agreements. Renminbi as an emerging reserve currency, the One-Road-One-Belt strategy, the Asian Infrastructure Investment Bank, and the new four China Free Trade Zones are the latest events of development important for economies and society in the Asian and European continents. All these topics will be discussed in this course.

Pre-requisite: None

### **GEGA2002 EDUCATION AND GLOBALIZATION**

Globalization has become a centerpiece in our times when increasing economic, cultural, and educational interconnections propel nations and citizens to think globally and act locally. Drawing on international scholarship, this course aims to help students make sense of this multi-faceted phenomenon of globalization and examine key themes, issues, and trends that affect education around the world. A variety of topics will be discussed and students will be given opportunities to reflect and analyze their own educational system in relation to these themes and issues. No prior course work on related topics is required.

Pre-requisite: None

### **GEGA2003 GLOBAL MEDIA**

The course aims to provide students with a set of literacies specific to the cultural field of the global mass media. Most of the information and knowledge, and also the ideas, opinions and attitudes, which students have about the world are derived from (increasingly digitally linked) media outlets and sources. However, while students utilize the media intensively, they do so with a relatively undeveloped (often merely tacit) understanding of the field's logics, values, discourses, genres and forms of address. Consequently students lack the ability to distinguish between different sources and levels of information, and have little idea how to critically evaluate the representations and presentations provided through the media. In this course students will learn about the mass media as a cultural field, and how to approach and utilize it as informed and literate users. This level of literacy will be demonstrated in a project that they will be required to complete at the end of the semester, and also in oral presentations that groups will give on selected case studies. The course will also have a strong visual literacy component, whereby students will learn how audio-visual texts utilize combinations of visual, spoken and written language and signs to produce meanings and narratives for, and to hold the attention and influence the ideas and practices of, media audiences. Part of the feedback from the oral presentations will be directed to the kinds of literacies and techniques that help produce effective audio-visual texts: in this way the course will help students to learn both analytical & practical oral, visual and written communication literacies.

Pre-requisite: None

### **GEGA2004 INTERCULTURAL COMMUNICATION**

This course provides an introduction to how people communicate across cultures. It will look at examples of, and the reasons for, successful and unsuccessful cases of intercultural communication. This course aims to provide students with the tools they need to become competent and confident communicators across a range of intercultural communication contexts. There will also be a focus on how communication and culture shape each other, and how various socio-cultural factors and issues affect and are affected by communication.

Pre-requisite: None

### **GEGA2007 EMPIRES AND OVERSEAS EXPANSION**

This course area is designed to provide a general understanding of some of the key problems facing the modern world. In an attempt to understand the rise of modern-day 'superpowers', this course will focus on the historic role of 'Empires' and 'Overseas Expansion' in affecting political, economic, social and cultural development throughout the world in the modern period. Through an exploration of this process we will explore how empires (European and Asian) did not simply carry or enable global processes but rather how they gave rise to new hybrid forms of economic activity, political practice and cultural expressions.

Pre-requisite: None

### **GEGA2008 HISTORY OF GLOBALIZATION**

The contemporary issue that we will focus upon in this class is globalization. Globalization has long historical roots; some say reaching back 500 years and others even earlier, but no-one can deny that the current globalism is overwhelming in its impact upon the local. From the literature, we can see that globalization has numerous vectors, social, economic, environmental and political. Globalization also has its opponents as well. By taking a long duration approach - and with Macao as a ready example - this course seeks to reveal how many of the problems associated with globalization can only be understood with reference to the global past.

Pre-requisite: None

### **GEGA2010 MIGRATION AND MULTICULTURAL SOCIETY**

Migration is a fundamental feature of our lives. In Macao, our ancestors and family may have left home, settled and created a migrant society together with other groups. In the era of globalization, technological development facilitates further mobility, but new control mechanisms and borders also increasingly regulate and limit our mobility. This course offers a holistic view of the migration process from multiple perspectives. We will introduce macro

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factors structuring migration patterns and volume; how problems and crisis such as refugees and human trafficking affect the global politics and international relations. We will discuss migration policies of different countries and how they condition the migrants' entry, exit, settlement and entitlement to citizenship, as well as societal views toward different migrant groups. Students will also learn to look at migrants' identities and social networks through their own migration experiences or their family's migration history.

Pre-requisite: None

### **GEGA3000 GLOBAL BUSINESS AND CULTURES**

Businesses, especially multinational corporations, play prominent role in the increasingly globalized world.

This course will therefore analyze how the contemporary global business environment and the free market economy has been evolving since the first publication of Adam Smith's "The Wealth of Nations" in 1776 and the world's first stock exchange invented by the Dutch in 1602 (i.e., Amsterdam Stock Exchange). As the contemporary business environment is highly globalized, this course will also adopt a cultural perspective on how to deal with counterparts from different parts of the world. Specifically, how different nations' cultures and the organizational cultures interact and affect the behaviors of employees will be discussed. The aim is to equip students a thorough understanding of how the contemporary business environment has been evolving and the skills to adapt to the latest development of globalization with cultural sensitivity. In addition to exposing to these historical, cultural and managerial dimensions of global business environment, students will also learn what modern business corporations need to adapt in the global business environment and develop individual sensitivity and competence in the global work context.

Pre-requisite: None

### **GEGA3001 UNDERSTANDING INTERNATIONAL POLITICS**

The field of world politics presents us with some of humanity's most difficult problems. Why do wars happen? Why are some countries rich and others poor? Why is it so hard to get countries to cooperate? Is change possible in world politics or is humanity doomed to repeat the same political drama over and over again? This course introduces students to the fundamentals of international relations theory and how to employ theory to analyze important topics in world politics, such as the development of international institutions, the causes of war, transnational norms, and the role of non-state actors.

Pre-requisite: None

### **GEGA4000 GLOBAL POLITICS AND WEALTH**

This course examines the political process of international economy, and the interaction between state and market, and between power and wealth in international relations. The course will present:

1. the history of international political economy;
2. basic theories and different schools and approaches;
3. analysis of basic issues on trade, investment, development, globalization and regional integration; and
4. examination of the interactions between the rising China and the global economy.

Pre-requisite: None

## ***Literature and Humanities***

### **GELH1000 CHINESE LANGUAGE AND CULTURE**

This is an introductory course to key features of Chinese language and culture, with a special focus on the interplay between language and thought. The course will present studies on how Chinese language influences Chinese ways of thinking, how it shapes our understanding of Chinese culture, and how it gives rise to debates regarding the comparison between Chinese

and Western philosophy.

Pre-requisite: None

### **GELH1010 CHINESE LANGUAGE AND CULTURE (FOR INTERNATIONAL STUDENTS)**

This is an introductory course to key features of Chinese language and culture, with a special focus on the interplay between language and thought. The course will present studies on how Chinese language influences Chinese ways of thinking, how it shapes our understanding of Chinese culture, and how it gives rise to debates regarding the comparison between Chinese and Western philosophy.

Pre-requisite: None

### **GELH1001 CHINESE LANGUAGES AND CHINESE COMMUNITIES**

In this course the students expand their knowledge of Chinese languages and Chinese communities and understand language phenomena as an expression of culture and as a function of society. Through readings, discussions and mini-projects the students apply the sociolinguistics knowledge introduced to answer academic and practical questions. Global and local language situations are surveyed in a Chinese perspective and current issues in language matters are analyzed. Through problem-solving exercises, the students hone their skills of critical thinking, communication and collaboration.

Pre-requisite: None

### **GELH1002 POPULAR LITERATURE AND LIFE**

Through classroom instruction for students to grasp the knowledge of Chinese Popular Literature such as: fiction, opera, folk song, etc. Topics such as the analysis and interpretation of texts, themes, psychology and sociological studies of selected masterpieces will be covered. Works discussed will focus on the connection with the life and experience of students, and include the different kinds of theme and genre of popular literature.

Pre-requisite: None

### **GELH1003 CONTEMPORARY ARTISTIC EXPRESSIONS IN THE PORTUGUESE-SPEAKING WORLD**

In this course students will be introduced to the vibrant diversity of the artistic scene in the Portuguese-speaking countries, addressing the way they dialog with each other and establish multidirectional exchanges among them. The course will explore how the crosscurrents of artistic debate in the twentieth century have been particularly prolific in stressing the tension between tradition and innovation, center and periphery, convergence and divergence, especially in the aftermath to the postcolonial redefinition of these countries.

Pre-requisite: None

### **GELH1004 PORTUGUESE-SPEAKING COUNTRIES IN CONTEMPORARY WORLD**

This course will explore the complex and diverse realities of the Portuguese-speaking world. Starting from an approach to the historical background of these countries and to the insertion of these communities in their specific regional contexts, students will be introduced to the multilayered relations between them, covering a range of dimensions such as the political, economic and cultural.

Pre-requisite: None

### **GELH1007 VISUAL AND PERFORMING ARTS - DANCE**

In this course, students explore the current themes and issues in dance by participating in theoretical (lectures/tutorials), practical (studio/performance), and aesthetic (dance film appreciation/critique) classes. Students develop an awareness of the body through movement, dance improvisation, creative processes, choreography, interdisciplinary arts, language, and literature. Theoretical and aesthetic components help students develop analytical thinking skills while practical sections challenge them to think more deeply on dance and the role it plays in society. Classes focus on a range of activities that dancers and movement practitioners use to foster kinesthetic awareness, critical thinking, movement experimentation, play/outcome-based

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learning, and communication through body language.

Pre-requisite: None

### **GELH1008 TRADE, EMPIRE AND GLOBALIZATION**

This course traces the historical origins of globalization, examining the long-distance trade and imperial expansion that increasingly linked regions of the world together from around the year 1500. The course follows these phenomena through the modern period and up to the present. It explores how the lives of people around the world have changed in response to the globalization of society, culture, politics, and the economy.

Pre-requisite: None

### **GELH1009 ATHENS AND JERUSALEM: PILLARS OF WESTERN CIVILISATION**

This course introduces the Bible (Hebrew & Christian) and the Mythology of Greece and Rome – pillars of Western civilisation. Their somewhat different value systems are seen as a cause of tension between Athens and Jerusalem, a dynamic at the heart of Western culture. That relationship, and the mythologies arising from these dual systems will be examined in this semester-long course.

By looking at key stories from these dual mythologies, this course equips students to understand how Western values have been constructed and how even in the modern world its culture continues to draw on these foundational myths.

Students will study their use in art, music, language, architecture, philosophy and astronomy. While these stories are important in their own right, students will also learn to read art e.g., various depictions of the same story, and to understand the central role these myths continue to play in our world today.

Pre-requisite: None

### **GELH1011 PHILOSOPHY AND HUMOUR**

This course offers an overview of humour in Western and Chinese philosophies. It looks at humour in philosophical works, as well as at philosophers' expressed attitudes to humour, and covers major contemporary philosophical theories and explanations of humour. Philosophy offers a great set of tools to help us understand humour, while, at the same time, humour is one of the most engaging ways to think on major philosophical questions.

Pre-requisite: None

### **GELH1012 ART APPRECIATION: A CLOSE READING OF MASTERPIECES**

This is an introductory course concentrating on masterpieces of art to foster students' visual intelligence and artistic sensitivity. It engages students with artworks in various media, forms, and styles, guiding them to interpret art through viewing, reading, discussing, and writing. Focusing on media and styles, this course unfolds its content through the three sections of fine arts, including sculptures, ink paintings, and oil paintings. Appreciating art aesthetically and intellectually is an indispensable ability for students to better perceive and participate in our contemporary society where images play an increasingly significant role in mass communication and transcultural exchange worldwide. The goal of this course is to provide students with opportunities to develop an in-depth understanding of art and to cultivate an aesthetic appreciation and intellectual interpretation of the visually cultured world.

Pre-requisite: None

### **GELH2000 CREATIVITY AND WRITING: ENGLISH FOR A GLOBAL READERSHIP**

In this course students learn to express themselves creatively through the medium of English. While the main emphasis is on story making, students experience a range of creative texts (including stories, poems, songs and films), as models for their own imaginative work.

Students will learn to write simple texts in key creative genres: for instance different types of poem, short story and life writing (biography and autobiography). Learning to tell and write stories, individually and in groups, students gain confidence in expressing themselves and in constructing a narrative from different points of view.

Working from lecture to discussion mode, class time is largely devoted to understanding how

simple stories work and to practising basic techniques of storytelling. Group work, in-class performance and writing for a global audience are integral to the course. Reading and homework assignments set from week to week challenge the student to create engaging creative texts from memory and imagination. Assessment is by individual portfolio including an agreed combination of individual and group work in different genres.

Pre-requisite: None

### **GELH2001 SEX AND THE ARTS**

This course will unpack the intimate relationship between sex and the arts by engaging with the ideas and works of an eclectic assembly of philosophers, psychologists, poets, and artists. The course is divided into two parts: the first part deals with the history of sex and the arts, organized in chronological order from ancient myths and stories to contemporary theories and forms of cultural expression; the second part deals with controversial themes at the intersection of sex and the arts. Those themes will be the basis for the class debate, a major course activity. This course encourages students to be open-minded and understanding toward ideas that might be new or in opposition to their current sensibilities and worldview. This course welcomes respectful disagreement as it remains hospitable to multiple and conflicting perspectives.

Pre-requisite: None

### **GELH2002 THE HOLOCAUST, GENOCIDE AND HUMAN RIGHTS**

This course introduces students to the Holocaust, the systematic murder of the Jews of Europe by the Nazi regime between the years 1939 and 1945. In seeking to understand how the Holocaust happened, students will be introduced first to concepts like racial prejudice and other forms of discrimination, anti-Semitism, and the role of nationalism in creating concepts of the Other. The course will study the rise of the Nazi Party in Weimar Germany, its accession to power in 1933 and the systematic denigration of, and discrimination against, Jews from the years 1933 to 1939. The course will discuss the power of propaganda, the effects of discriminatory laws excluding Jews from all areas of public life and how these lead first to the mass murder of Jews in eastern Europe (Operation Barbarossa) and then the Final Solution, with the establishment of death camps, of which Auschwitz-Birkenau is but the most infamous. This course will also address the issue of genocide, how the Holocaust led to the concept of genocide, first described as such by Raphael Lemkin in 1943 and subsequent international treaties seeking to prevent further genocides. The course will look at other genocides, including Armenia, Cambodia, Rwanda, and Darfur. Special attention will also be paid to the Japanese invasion of China, the Nanjing Massacre and Unit 731 in Manchuria.

Pre-requisite: None

### **GELH2003 VISUAL AND PERFORMING ARTS – DRAMA**

This course consists of two major components: art introduction and drama. This course is designed to acquaint students with the vocabularies and concepts for critiquing and analyzing performing arts. It examines the functions of dramatic art from social and global perspectives, and it encourages students to develop judgment in analysis and criticism of drama as a performing art form. Students will gain an overview of the generic concepts and historical movements in different forms of drama across eras and cultures. In the drama component, students will be introduced to the form and function of dramatic literature in relationship to theatrical performance. Study of plays as texts will lead to rehearsal and performance of selected scenes/acts from plays.

Pre-requisite: None

### **GELH2004 VISUAL AND PERFORMING ARTS – MUSIC**

This course aims to encourage students to explore an extensive array of music genres throughout the history of Western and non-Western cultures and nurture a positive attitude and appreciation toward music. The students will learn to comprehend the elements of music (i.e., pitch, melody, rhythm, harmony, and form) and commonly used terminologies illustrated in major compositions. The students will travel through different periods (i.e., from the Middle Ages to the Contemporary Era) and listen to distinguished musical features associated with

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major composers and their popular works. Finally, the students will connect this knowledge to the present context that music has become prevalent in our daily lives (i.e., music in movies or public places). The proportion of Western music is approximately 70%, whereas that of non-Western music (i.e., Chinese or other Asian cultures) is 30%.

Pre-requisite: None

### **GELH2005 VISUAL AND PERFORMING ARTS – VISUAL ART**

Artworks of different genres have been delighting people from all ages and all places. We enjoy their beauty and their articulation, but we know nothing or very little about their creation process. The practice of aesthetic appreciation of art enables us not only to enjoy art through deeper understanding of the works, but also to recognize and realize our creative potential and capability, as well as to cultivate and broaden our vision of artistic culture. The course will be taught in two parts: Firstly, Introduction to visual and performing arts, which includes common lectures on What is Art? Art and Culture, Understanding Art Genres, Approaches to Art Appreciation. Secondly, Introduction to Visual Arts—Form, Style & Culture, which includes lectures designed to equip the students with basic knowledge of the different visual art forms and teach them how to appreciate and interpret such artworks by illustrating the relationship between form/style and theme/culture. Masterpieces from different regions/places reveal not merely local colors, but also rich cultural contents, echoing profound problems of life for seeing and understanding the world.

Pre-requisite: None

### **GELH2006 DIALOGUE WITH THE PAST: HUMAN MEMORIES IN ARTS, LITERATURE, FILMS, AND MATERIAL CULTURES**

This thematic course for the GE programme will examine the way that cultural memory and historical events have been represented in art, literature, and film. Aesthetic representation is different from conventional historiography, and the course will explore how this way of recording the human past can be much more influential on cultural and political grounds. The course will choose one historical theme—such as colonialism, imperialism, industrialization, revolution, war, independence movements, communism, institutional reform, globalization, migration, feminism, etc.—as the topic of the class and encourage students to approach artistic representations of the past in a critical spirit. By comparing primary texts with the stories told by art, literature, and film, students will learn to distinguish the imagination of the past from historical reality, as well as the rhythm and pace of change from historical continuity.

Pre-requisite: None

### **GELH2007 HISTORY OF WESTERN CIVILIZATION**

This course examines the evolution of western civilization from antiquity to the eighteenth century. Over the course of the semester, students will develop an understanding of how the concept of “western civilization” – that is taken to mean, the social and cultural norms, ethical values, traditional customs, religious beliefs and political systems of “the west” – were based historically on a series of cultural borrowings – artistic, literary, intellectual and political – between rivaling states and empires based mainly in Europe. With the rise of Christianity in the Late Roman Empire, students will examine how peoples in Europe gradually became aware of themselves and the lands they inhabited as being “western”, and of being part of a “western civilization” . Defining themselves first against other powerful civilizations, most notably Islamic civilizations in “the East”, this process quickly gathered speed in the sixteenth century as Europeans gradually moved to other parts of the world and began encountering other “non-western” peoples from Asia, Africa and the Americas.

Pre-requisite: None

### **GELH2008 ASIAN VALUES AND MORAL TRADITIONS**

This course introduces students to major moral traditions (for example: Hinduism, Buddhism, Confucianism, Daoism, Shinto, or Bushido) in Asia. Close attention is given to basic values and ethical categories (for example: karma, samsara, moksha, dharma, ren, li, or dao) that have informed Asian moral discourse with special reference to the pivotal role of these values and



categories in shaping social, economic, and political life in Asian societies.

Pre-requisite: None

### **GELH2009 CREATIVITY FOR THE 21ST CENTURY**

This course introduces students to Creativity from a variety of perspectives. Instructors of the course take students through a challenging yet fun learning journey, which will nurture their creativity and help them see and hear differently.

This course is a combination of classroom teaching as well as online teaching. It is a SPOC (small, private online course) which includes materials designed for UM's MOOC Creativity ([https://www.xuetangx.com/courses/course-v1:UMX+CRT101+2018\\_T4/about](https://www.xuetangx.com/courses/course-v1:UMX+CRT101+2018_T4/about)). Pedagogy adopted in this course is blended learning through the use of various technologies (such as UMMoodle, Rain Classroom, mobile learning). Instructors will apply a range of teaching methods, including regular lectures and tutorials, discussion fora, practices and workshops.

Pre-requisite: None

### **GELH2010 PORTUGUESE LANGUAGE IN ASIA**

This course offers an engaging exploration of Language Contact within the context of Portuguese varieties across Asia. It welcomes students from various backgrounds, as it provides an introductory insight into the fascinating global phenomenon of the new language varieties emerging from contacts and interactions between different communities, cultures, and languages. We achieve this through a curated selection of case studies, focusing on the development of Portuguese language varieties in Asia.

Our primary objective is to examine the pivotal role played by cultural, socio-political, socio-historical and economic factors in shaping the emergence of these new language varieties. This course will underscore the various modes of contact between Southeast Asian and East Asian nations and the European languages, particularly Portuguese. This exploration extends to Greater China, with a special emphasis on Macao.

Pre-requisite: None

## ***Science and Technology***

### **GEST1001 QUANTITATIVE REASONING FOR BUSINESS**

This course aims at providing students a sound foundation in mathematics that is required for future courses in quantitative methods and economics, as well as for some business subjects. The course also discusses how to apply quantitative techniques in dealing with some business and economic problems. By exposing the students to various business and economic applications through a wide range of mathematical procedures, the students not only will get familiar with numerous business procedures that require the use of mathematics, but will also be able to use mathematics to solve some basic business problems.

Pre-requisite: None

### **GEST1002 QUANTITATIVE REASONING FOR SOCIAL SCIENCES**

The goal of this course is to develop students' quantitative reasoning skills through the enhancement of their mathematical and statistical literacy. The content of this course includes managing your money, logic, probability and statistics and basics of mathematical modelling. Real-life applications will be emphasized.

Pre-requisite: None

### **GEST1003 QUANTITATIVE REASONING FOR HEALTH SCIENCES**

The goal of this course is to develop students' quantitative reasoning skills through the enhancement of their mathematical and statistical literacy. The content of this course includes financial mathematics, logic, statistics, and linear programming and optimization. Application examples for health sciences will be emphasized.

Pre-requisite: None

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**GEST1004 QUANTITATIVE REASONING FOR SCIENCE AND TECHNOLOGY**

This course aims at providing a solid foundation of one variable calculus for science and technology students. The topics include basic reasoning skills, limit and continuity, derivative and its applications, integral and its applications.

Pre-requisite: None

**GEST1005 INTERNET, BUSINESS AND SOCIETY**

The emergence of Internet has changed society significantly. One of the main reasons for the tremendous changes is the popularity of Internet services offered to Internet users who make use of them in both business and personal life. This course will, therefore, introduce some popular and important Internet services to students and describe how they improve the operational efficiency in business and society. In addition, there is discussion of Internet security and privacy issues.

Pre-requisite: None

**GEST1006 LOGIC AND REASONING FOR BUSINESS**

This course is to introduce the basic concepts of logic, apply the knowledge in the context of daily applications and reasoning and to enhance student's generic analytical ability in the area of business operations and strategy. The course will make use of various business scenarios to provide the students with training in thinking methods, different ways in solving the same problem, not just only the knowledge of the techniques of logic. Topics include concepts of logic and reasoning, logic puzzles, propositional logic, syllogistic logic and predicate logic.

Pre-requisite: None

**GEST1007 FUN IN HEALTH SCIENCE**

This course introduces important topics related to health in daily-life including the effect of environment, nutrition, and genetics on health, healthy aging, and mental and physical well-being. Biotechnology innovations and lifestyle modifications that can impact human health will be introduced. The course will be taught from a biological, biomedical, and biotechnological perspective. Students will participate in regular fun educational activities related to health sciences that illustrate and enforce the concepts learned in class.

Pre-requisite: None

**GEST1008 EXPLORING THE EARTH**

An introduction to major principles of physical geology covering the structure of the Earth, plate tectonics, volcanism and mountain building processes, weathering, sedimentation and rock formation, metamorphism and rock cycle, mass movement, earthquake, surface and underground water process, water and climate change.

Pre-requisite: None

**GEST1009 MULTIMEDIA TECHNOLOGY IN MODERN SOCIETY**

The aim of this course is to introduce and explore the impact of multimedia technology in different aspects of modern society. The contents include visual communications, digital content in website, digital effects, moving image, new media possibilities and experience. The course is also designed to provide the fundamentals and practices for popular technologies and application software for 2D and 3D composition in our daily lives, such as Adobe Photoshop, Autodesk 3DS Max, etc. Lastly the course explores the creativity in interactive and tangible media, and possible research areas in multimedia.

Pre-requisite: None

**GEST1010 CHEMISTRY AND MODERN SOCIETY**

This course is designed for students that are non-chemistry majors and will be taught with a physical science basis. This course relates application of chemistry to the benefits of modern society. It provides an introduction to the study of the properties and changes in matter. Course emphasizes topics such as: sustainable future, global climates, energy usage followed by their applications in synthetic plastics, medical drugs, food nutrition, genetic engineering, and

modern materials.  
Pre-requisite: None

### **GEST1011 ENVIRONMENTAL SCIENCE**

Throughout this course, students can better understand the unity and diversity of life interacting with the surrounding environments. Such major topics as population ecology, community interactions, ecosystems/biogeochemical cycles, biosphere and human impact on biosphere, and animal and social behavior will be covered. Students will also learn the unifying concepts in biology, the cellular basis and the ongoing flow of life, plant and animal systems and their control, and ecology and behavior; and so that students will be able to explore physical and biogeochemical processes and appreciate the importance of the quality of environment.  
Pre-requisite: None

### **GEST1012 ELECTRICITY AND LIFE**

This course is about the study of physical science for non-engineering students with emphasis on basic electricity related topics. The focus of the course is not only the elementary physics of electricity; but also enlightening applications in Energy, Telecommunication, Health and Safety of electricity for the human life. Some demonstrations and hand-on experiments are also arranged to provide hand-one experiences and insights for the students on the relative topics.  
Pre-requisite: None

### **GEST1013 MATHEMATICS IN MODERN SOCIETY**

The aim of this course is to enhance students' mathematical literacy and interest. It emphasizes the relevance and practicality of mathematics in modern society. Through the study of different applications, students will see how mathematics comes into our daily lives. The mathematical techniques involved are taught via hands-on applications. The topics discussed may vary from year to year.  
Pre-requisite: None

### **GEST1014 MYSTERIES OF THE UNIVERSE**

In this course, we aim to explain the fundamental concepts including gravity, Einstein's relativity, cosmology, etc. Topics including the solar system, the climate of the earth, the life cycle of stars, gravitational lensing, cosmic microwave background radiation will also be discussed. No prior knowledge of astronomy is necessary.  
Pre-requisite: None

### **GEST1015 PHYSICS AND MODERN SOCIETY**

To enable students to know the use of physics in modern society and technology. Fundamental laws of nature are emphasized with examples of various applications in daily life. Moreover, selected topics of physics relevant to modern society are included. Topics are presented at an introductory level for the students with little or no background in physical science.  
Pre-requisite: None

### **GEST1016 MYSTERY OF CHEMISTRY**

This course will describe a series of interesting stories about the birth, evolution, and important discovery of chemistry. Students will learn fundamental chemistry knowledge from interesting chemistry stories, discovery of chemistry mysteries, and through in-class fancy chemistry demonstrations. The course will also bring students to the frontier of modern chemistry researches which are closely related to our daily life.  
Pre-requisite: None

### **GEST1017 MODERN DRUG DISCOVERY: DRUGS AND HEALTH**

How many drug pills and tablets do you take in your lifetime? What's the role of drugs in human society and today's health care system? What separate drugs from food and toxins? How long does it take to find a new drug and why some drugs are so expensive? If you have ever had one of these questions, then consider taking this GE course. The course aims to enhance

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understanding and appreciation of the important and multifaceted roles that drugs play in our daily life. No previous background in pharmaceutical or life sciences is required.

Pre-requisite: None

### **GEST1018 NUTRITION AND FOOD SAFETY**

With the huge rise in diet-related illnesses such as obesity, type II diabetes and cardiovascular disease, and in food safety emergencies, this course aims to provide students with knowledge of the dynamic fields of human nutrition and food safety. It includes an overview of nutrition and human health, and various topics ranging from explanations of the fundamental nutrients (e.g. carbohydrate, lipid, protein and minerals) to the numerous risks to our food and water supplies (e.g. bacterial contamination, agricultural pesticides, food additives, allergens, and industrial chemicals). It will also introduce students to the serious effects of diet-related diseases/disorders and provide them with the knowledge required to make good food choices. This GE course will be of great interest to all learners because the contents are relevant to daily life.

Pre-requisite: None

### **GEST1019 MICROELECTRONIC CHIP TECHNOLOGY IN DAILY LIFE**

As enabled by powerful technology, microelectronics have become essential in our daily lives. They are also used in a wide range of fields such as healthcare, environmental monitoring, robotics or entertainment etc. This introductory course in microelectronics is tailored for non-engineering students and teaches how to use microelectronic chip components interacting with the environment through sensors and communicate wirelessly with other devices. It covers topics from evaluation and implementation of sensor interface, data conversion, signal processing and device communications. This customized course is bottom-up based, which starts from introducing basic components in information systems, such as 5G communication. Then, followed by system and architectural interface considerations. Finally, the students have a chance to complete a case study on one for Artificial Intelligence and Internet of Things (AIoTs) related system.

Pre-requisite: None

### **GEST2000 ACTIVE LIFESTYLES, WELLNESS AND SPORTS SCIENCE**

This course is designed to expose students to the relevant principles in sports science as related to health and fitness, and to discuss how students can apply the relevant sports science principles in one's daily life for making sustainable healthy life style choices to improve one's health and fitness. From the perspectives of sports science, topics relevant for health and fitness, such as health promotion, concepts and principles of exercise, self-evaluation and exercise prescription for health-related physical fitness, effective weight management and nutritional issues, building up healthy social relationships through fitness exercise and practice, sports injury prevention, first aid, etc., will be covered. The course emphasizes the relevance and application of the sports science principles for improving one's physical and mental health.

Pre-requisite: None

### **GEST2001 BIOLOGY IN OUR DAILY LIFE**

In this course, students will be introduced to basic concepts and principles of human biology and health, and recent technological advances in biomedical science. This class aims to highlight on how biology affects human daily life, from simply understanding human bodies to nutrition, treatment of diseases such as cancer and infection, and the personalized medicine. This course will not only broaden the scope of students' understanding of the world from life science perspectives, but also increase overall awareness of the fact that life science has profound effects in everyday life.

Pre-requisite: None

### **GEST2002 PSYCHOLOGY AND HEALTH**

How is stress linked to heart disease? Will the immune system change because of psychological stress? Can a sugar pill cure back pain? Do married people live longer? What

influences healthy eating? What helps people to cope with illness? Are there ethnic variations in health? How can we change people's health behaviors to improve their health? This course tries to answer these questions, and provides an overview of Health Psychology — a young and exciting field of study that examines the bi-directional relationship between people's thoughts, feelings, behaviors, and their physical health.

Pre-requisite: None

### **GEST2003 EXPLORING CHINESE MEDICINE**

Traditional Chinese medicine (TCM) has been practiced in China and other Asian nations for more than 2,000 years and has gained increasing attention and popularity all around the world including Europe and North America. The main objectives of this course are 1) to provide a historical overview of the discoveries our ancestors made from natural products; 2) to discuss how modern technologies are used for mining the treasure and uncovering the healing power of Chinese medicine; 3) to introduce the cultures developed along with the therapeutic philosophy in Chinese medicine. Students will learn the basic principles of TCM, and acquire up-to-date information on the medicinal use and scientific research of TCM.

Pre-requisite: None

## ***Society and Behaviour***

### **GESB1000 - ETHICS, VALUES, LAW AND SOCIETY**

- **GESB1001 APPLIED ETHICS**

This course component examines the role of ethics in building a just and fair society. Students will be introduced to typical ethical problems they will face in work and society, learn how to apply ethical principles to comprehend and analyse these problems, and make better decisions accordingly.

Pre-requisite: None

- **GESB1002 FOUNDATIONS OF MORAL VALUES**

How should we live? What is a right conduct and a good life? Why do moral values need foundations? The aim of this course is to help students to understand basic moral theories and ideas in philosophy and religion that shape values of our lives. The course will also provide students with the intellectual resources needed for thinking systematically and critically about some of moral and ethical issues in a contemporary context.

Pre-requisite: None

- **GESB1003 LAW AND SOCIETY**

This course component aims to introduce the basic knowledge of the Constitution of China and the Basic Law of Macao at both theoretical and practical levels. It is hoped that this course will help students to understand the basic concepts, theories, principles and spirit of the Constitution and the Basic Law, the basic system of the State and Macao, and the importance of the Constitution and the Basic Law to Macao SAR and the Macao residents.

Pre-requisite: None

### **GESB1017 LAW AND SOCIETY**

This course aims to introduce the basic knowledge of the Constitution of China, the Basic Law of Macao and the national security laws of China and Macao at both theoretical and practical levels. It is hoped that this course will help students to understand the basic concepts, theories, principles and spirit of the Constitution and the Basic Law, the basic system of the State and Macao, and the importance of the Constitution and the Basic Law to Macao SAR and Macao residents.

Pre-requisite: None

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### **GESB1018 LAW AND SOCIETY (FOR INTERNATIONAL STUDENTS)**

This course aims to introduce the basic knowledge of the Constitution of China, the Basic Law of Macao and the national security laws of China and Macao at both theoretical and practical levels. It is hoped that this course will help students to understand the basic concepts, theories, principles and spirit of the Constitution and the Basic Law, the basic system of the State and Macao, and the importance of the Constitution and the Basic Law to Macao SAR and Macao residents.

Pre-requisite: None

### **GESB1004 DEVELOPMENT OF GAMES AND GAMBLING**

This course introduces the history of gambling and games. Gambling is a major leisure activity performed by many individuals worldwide. It can take various forms including lottery, sports, horse racing, and casino. This course will introduce students the history of gambling and wagering games across different national cultures including Chinese, Americans and Europeans. Students will examine how gambling and wagering games have evolved over time. It is hopeful that through the lens of time, students can begin to understand the reasons why people take risks and gamble.

Pre-requisite: None

### **GESB1005 MACAO LAW AND ITS REAL-LIFE APPLICATIONS**

This course will introduce Macao Law and its applications in real-life.

Due to a history of administration by Portugal, Portuguese Law was transplanted to Macao, which had been gradually localized, and eventually resulted in forming a distinctive Macao Legal System. Macao law is often described as the product of alien legal culture; citizens' perception and acceptance of Macao Law are very limited. However, citizens' perception and acceptance establishing public legal culture is the key to ensure the proper implementation of law.

Through introduction of Macao Law and its applications, this course aims to strengthen students' perception and acceptance of Macao Law, facilitate the establishment of public legal culture.

Pre-requisite: None

### **GESB1006 ECONOMICS OF EVERYDAY LIFE**

This course provides an introduction to the basic ideas in economics. It will discuss how individuals and firms make their decisions and how to interact with each other. The operation of markets, including the competitive markets and monopolists markets, will also be discussed. The course will also explore the functioning of labor market, product market and other factor markets. The course will use real-world examples to illustrate the economic principles and their applications.

Pre-requisite: None

### **GESB1007 UNDERSTANDING MACROECONOMIC POLICIES**

This course will introduce students to the study of macroeconomic policies by the government and central bank. Concepts such as national income, gross domestic product (GDP), unemployment, money, inflation, and exchange rate will be discussed. Fiscal policy from the government and monetary policy from the central bank will be introduced and their effects on these macroeconomic variables will be studied. The roles of macroeconomic policies in dealing with real-life economic problems, for example, fighting unemployment, curbing inflation, and so on will be analyzed. Interactions among different markets will be introduced to help students understand how macroeconomic policies work.

Pre-requisite: None

### **GESB1008 UNDERSTANDING GOVERNMENT**

To understand the structures, responsibilities and importance of government(s) in contemporary time. How governments respond to public needs and people's interests while maintaining the fundamental principles of legality, justice, equality, rights and democracy etc.

make up the core of the course. How public policies are made and how they facilitate social progress and development will be another important content. Lastly, how governments interact with the public, community, private sectors, NGOs, and also the external environment will be a third concern introducing students to the important role of government. Examples will be drawn from various places. Reference to current issues or events will complement lectures.

Pre-requisite: None

### **GESB1009 PERSONAL GROWTH**

Personal and social competence is key to self-discovery and self-knowledge with the aim of becoming involved and succeed in the innovative global economy of the 21st century. The purpose of this is to engage students with the psychological approaches to self-development, leadership, creativity, and interpersonal competence that would help them deal with the unfamiliar and unexpected nature of an ever-changing future. The course will focus on topics such as self-esteem, life goals and careers, personality, the various forms of intelligence, and persuasion and conflict management. Other topics relate to friendship and love, coping mechanisms for difficult life situations, and socio-cognitive processes evident in interpersonal relations in daily life, and students will also actively engage in research through participation in psychological studies and experiments.

Pre-requisite: None

### **GESB1011 COURTSHIP, MARRIAGE AND FAMILY**

This course focuses on issues of love and intimacy, relationship development, sexuality, cohabitation, and marriage. It provides an overview of choices of mates and dating preferences, examines the ways that cultural, social, and personal factors shape these choices, and identify factors that contribute to happy and enduring relationships. Other topics covered in the course include planning for children, family formation, and parenting practices. We will also discuss common challenges facing love and marital relationships, including gender role, power and control, violence and abuse, and work and money.

Pre-requisite: None

### **GESB1012 CRITICAL PROBLEMS IN CONTEMPORARY SOCIETY**

This course describes social problems in contemporary societies especially Macao and China, and identifies how these problems affect and is affected by social forces, institutions, and culture. We will examine a series of long-standing and emergent social problems including gambling, aging, prostitution, substance abuse, violence, crime, inequality, racial and ethnic conflict, sex discrimination, health care, family issues, urban problems, population and food, environmental problems, and terrorism. We will try to identify the causes, distribution, and consequences of these problems. We will learn about theoretical perspectives that provide insights into social problems and empirical research that contributes evidence to the understanding of the problems. We will also assess social policies designed to mitigate the negative consequences of social problems.

Pre-requisite: None

### **GESB1013 EVERYDAY STATISTICS**

People nowadays are being connected globally in various ways, and statistics plays a role in giving basic international comparison. The first part of this course introduces some basic ideas in social and economic statistics for cross-national comparison. But, statistics is always considered as a hurdle for those not strong in mathematics. The second part introduces statistics which emphasizes intuitive thinking in daily life instead of technical mathematical jargon. This will equip students with minimal statistical literacy to cope with the data saturated society with confidence, and more advanced statistics courses in future studies. Emphasis is on statistical interpretation rather than analysis.

Pre-requisite: None

### **GESB1014 PSYCHOLOGY AND INTELLIGENT TECHNOLOGY**

This course provides an overview of psychology and Intelligent Technology (IT), including how

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the human brain produces intelligent behaviour and more importantly how the understanding of human intelligence would help to create intelligent machines. To this end, we will introduce how human intelligence emerges from computations at neural circuit level in multiple systems, such as visual system for vision, motor system for movement control and limbic system for emotions, with rigor sufficient to reproduce similar intelligent behaviour in machines.

Pre-requisite: None

### **GESB1015 ADOLESCENCE: BEYOND STORM AND STRESS**

This course will examine the biological, psychosocial, and contextual development and behaviours that characterize normal adolescent development. The course content will include:

- a) the developmental characteristics of adolescent physical, cognitive, and psychosocial development;
- b) the contextual influences (e.g., family, peers, teachers, community) on adolescent development;
- c) the epidemiology and etiology of adolescent problem behaviours across a variety of domains;
- d) the ways in which these behaviours relate to normal adolescent development in specific contexts;
- e) the specific ways parents and teachers can employ to prevent and, to a lesser extent, treat problem behaviours.

Pre-requisite: None

### **GESB1016 GOVERNANCE IN CHINA**

This course is a general introduction of China's state and society. It will include topics such as ways of understanding regimes in the world, social and ideational bases of the traditional and modern Chinese regimes, ways of mass participation and government responsiveness, disappearing rural and urban division through urbanization/modernization, central-local relations, and the impact of foreign relations on China's progress. After finishing this course, students should have obtained the basic knowledge about China's past and present in the context of internal and external conditions.

### **GESB1019 POP CULTURE IN EAST ASIA**

This course introduces students to pop cultures in Korea, Japan, and China as well as related key theories and concepts of society and behaviour. Pop culture refers to production, circulation and consumption of movies, pop music, animation, comics, TV programs, games, idols, and other forms of entertainment. The course first introduces the genres and types of East Asian pop culture and then explores a broad range of issues such as cultural commodification and consumption, ethics and legality, cultural collaboration, soft power and historical reconciliation. In particular, the course focuses on cultural industries in East Asia and how they shape social behaviour, value creation, and identity formation in East Asia and beyond.

Pre-requisite: None

### **GESB2000 PERSONAL FINANCE AND WEALTH MANAGEMENT**

Financial literacy has become increasingly popular and important around the world. Every university students should know how to manage his or her wealth, pension, and insurance. This course teaches non-finance students the core concept of financial planning, including retirement planning. Popular financial instruments will be introduced from the risk-return perspectives, including mortgage and car loans, bank deposits, stocks, bonds, mutual fund, and insurance products. Quantitative tools such as Microsoft Excel will be used to solve various problems in personal finance.

Pre-requisite: None

### **GESB2001 FOOD, EATING AND CULTURE**

This course examines social theories of food, eating, etiquette and nutrition. It is divided into five broad components. The first examines relationships between scientific and folk concepts of nutrition. The second analyses theories of food preparation and meal structure in various



international cultures. The third investigates how food and eating is governed by explicit and implicit rules of etiquette. The fourth part of the course investigates the role of public dining and the media in promoting particular images of food consumption. Finally, there will be a brief examination of the implication of current trends in food consumption for public health.

Pre-requisite: None

### **GESB2002 BUSINESS, SOCIETY AND ENTREPRENEURSHIP**

This course is designed to investigate the broad spectrum of business and society as well as sustainability issues that individuals have to face today and will face in the future. It will also provide students with the broad functions and role of business in society, and knowledge in balancing economic, legal, ethical, and philanthropic responsibilities to the variety of stakeholder groups with which businesses interact with the society. This course will explain the nature of business, its purpose and contribution to society as well as management's role in business and the overlapping influence of business, economy, and society. It involves discussion on these issues and debate that pertain to these relationships. Within the context of business, the course focuses on entrepreneurial behaviors which include social and business entrepreneurship (i.e. new venture creation and management), creativity, and innovation. Within its relationship to society, it will consider citizenship behaviors through topics as stakeholder management and corporate social responsibility.

Pre-requisite: None

### **GESB2003 CREATIVITY AND MARKETING**

Consumers, retailers and suppliers are demanding more creativity and innovation across every marketing activity, especially in such a highly globalized society with internet and mobile devices everywhere. In this course students will learn and experience how to combine creativity and marketing activities together. This course covers (a) the strategic basis for product development including sources and types of innovation, market entry timing, product market structure and competition, disruptive and entrepreneurial innovation, and the development of new services and service bundles; (b) latest and creative marketing practices including creative product design, creative promotion method, creative advertising example, creative business model; and (c) the management of the new product development and promotion process including collaboration and networks as well as strategies for launching and marketing new products and services.

Pre-requisite: None

### **GESB2004 PUBLIC SPEAKING**

The course aims to provide students with an introduction to the skills and practices of public speaking: this will be contextualized across the different socio-cultural and work situations in which they are likely to be required to speak, and with regard to the different groups they will have to address. The emphasis will be on four main areas:

1. speaking as a form of communication
2. the techniques of public speaking
3. understanding & addressing different kinds of audiences
4. researching the material to be dealt with in the speech
5. organizing the talk
6. using A/V aids
7. dealing with questions.

Pre-requisite: None

### **GESB2005 ART AND SOCIETY**

This course is to focus on the history of the use and function of art in global perspective. Images, with symbolic meanings and particular style, can be powerful visual language that speaks to the viewers directly. Art has been a meaningful endeavour that deals with basic human concerns from the dawn of civilization to the present day. In this course, art works are discussed in context with human survival, religion, politics, sexuality, technology, culture transmission and globalization. This course examines essential art ideas and makes them concrete using

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examples from around the world, and relates them to contemporary issues.

Pre-requisite: None

### **GESB2006 UNDERSTANDING POPULATION**

This course provides an overview of how social factors can influence population characteristics and how the characteristics of population in turn affect society. We will focus on three primary demographic processes: mortality, fertility and migration. We will learn basic concepts, theories and measurements of each process from both historical and comparative approach. We will apply these basic demographic concepts to contemporary population issues such as concerns over the persistent low, below-replacement fertility level and the aging of the population in Macao, the consequences of the internal migration on urbanization in China or other developing countries. Population literacy is therefore an important part of an individual's knowledge to understand current social, economic and political debates. In addition, population literacy is essential for yourself as you think about planning your own life in terms of human capital investments, marriage, fertility, labor force participation, saving, migration and many related aspects. In understanding these issues, we will use the social science theories and concepts such as social stratification, social interaction, and continuity and change. We will bridge sociology, anthropology, history, political science, economics, and psychology, and will do a comparative analysis between Macao, China, and other societies.

Pre-requisite: None

### **GESB2009 SMART TOURISM AND LEISURE TRAVEL BEHAVIOUR**

This course introduces concepts regarding people's travel decisions and behaviours through information technologies. In particular, the course is designed to allow students to gain a solid understanding about different aspects of travel activities, while utilizing technologies to make better travel decisions. The course is composed of four main modules: motivations and theories for leisure travel, special interest tourism and technology, information technology usage in tourism, and smart tourism case study. Through lectures, in-class discussions, case sharing, and homework assignments, students will learn how travel decisions and behaviors can be mediated through the usage of smart technologies. Student performance is evaluated through attendance, in-class participation, assignments, and the exam.

Pre-requisite: None

# Programmes of Study

( Subject to Revision )

## **Doctoral Degree Programmes**

### AREAS OF STUDY

- Linguistics (Chinese)
- Literary Studies (Chinese)
- Linguistics (English)
- Literary Studies (English)
- Applied Linguistics (Portuguese)
- Literary and Intercultural Studies (Portuguese)
- History
- Philosophy and Religious Studies
- Fine Arts
- Visual Communication Design

FACULTY OF ARTS & HUMANITIES

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Linguistics (Chinese)

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
CHLL8000	Research Methods for Advanced Studies in Chinese	3
CHLL8001	Academic Writing	2
CHLL8013	Advanced Topics in Chinese Linguistics	3
<b>Doctoral Thesis:</b>		
CHLL8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>26</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## Doctoral Degree Programmes

### Doctor of Philosophy

- **Literary Studies (Chinese)**

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
CHLL8000	Research Methods for Advanced Studies in Chinese	3
CHLL8001	Academic Writing	2
CHLL8042	Advanced Topics in Chinese Literature	3
<b>Doctoral Thesis:</b>		
CHLL8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>26</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

FACULTY OF ARTS & HUMANITIES

# Doctoral Degree Programmes

## Doctor of Philosophy

- Linguistics (English)

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
ENGL8013	Special Topics in English Linguistics	3
ENGL8016	Advanced Research Writing	3
ENGL8090	Practice of Scholarship I	3
<b>Doctoral Thesis:</b>		
ENGL8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>27</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## Doctoral Degree Programmes

### Doctor of Philosophy

- Literary Studies (English)

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
ENGL8014	Special Topics in English Literary Studies	3
ENGL8016	Advanced Research Writing	3
ENGL8090	Practice of Scholarship I	3
<b>Doctoral Thesis:</b>		
ENGL8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>27</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.



FACULTY OF ARTS & HUMANITIES

# Doctoral Degree Programmes

## Doctor of Philosophy

- Applied Linguistics (Portuguese)

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
PORT8008	Advanced Research and Academic Writing in Portuguese Studies	3
PORT8009	Cross-language Topics in Applied Linguistics	3
<b>Doctoral Thesis:</b>		
PORT8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>24</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## Doctoral Degree Programmes

### Doctor of Philosophy

- Literary and Intercultural Studies (Portuguese)

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
PORT8008	Advanced Research and Academic Writing in Portuguese Studies	3
PORT8010	New Trends in Portuguese Literary and Intercultural Studies	3
<b>Doctoral Thesis:</b>		
PORT8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>24</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## FACULTY OF ARTS AND HUMANITIES

# Doctoral Degree Programmes

## Doctor of Philosophy

### • History

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
HIST8803	Independent Study on Academic Writing in History	3
<b>Required Electives:</b>		
Choose 2 out of 4 from the following courses:		6
HIST8802	Advanced Special Topics in History	
HIST8804	Independent Study on Historiography	
HIST8805	Independent Study on History	
HIST8861	Advanced Reading/Historiography Seminar	
<b>Doctoral Thesis:</b>		
HIST8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>27</b>

“Advanced Special Topics in History”, “Independent Study on Academic Writing in History”, “Independent Study on Historiography” and “Independent Study on History” can be taught either in English or Chinese by any of faculty members in the Department.

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## Doctoral Degree Programmes

### Doctor of Philosophy

- **Philosophy and Religious Studies**

		Credits
<b>Compulsory Courses:</b>		
AHGC8000	Research Ethics	--
PHIL8004	Special Topics in Philosophy and Religion I	3
PHIL8006	Research Writing in Philosophy and Religious Studies	3
<b>Doctoral Thesis:</b>		
PHIL8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>24</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

FACULTY OF ARTS AND HUMANITIES

# Doctoral Degree Programmes

## Doctor of Fine Arts

	Credits
<b>Compulsory Courses:</b>	
ARTD8000 Art Canon Studies I: Western Traditions	3
ARTD8001 Art Canon Studies II: Chinese Traditions	3
ARTD8002 Transcultural Arts Studies	3
ARTD8003 Aesthetics and Art Research Methods	3
ARTD8004 Great Moments of Humanities and Science	3
ARTD8005 Interdisciplinary Seminar: What Is Creation?	3
ARTD8006 Artistic Experiments I: Western Media	3
ARTD8007 Artistic Experiments II: Chinese Media	3
ARTD8008 Artistic Experiments III: Digital Media	3
ARTD8009 Art Exhibition and Cultural Management	3
<b>Doctoral Thesis:</b>	
ARTD8999 Doctoral Thesis	18
<b>Grand Total:</b>	<b>48</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

## Doctoral Degree Programmes

### Doctor of Design

#### • Visual Communication Design

		Credits
<b>Compulsory Courses:</b>		
ARTD8100	Design Seminars	3
ARTD8101	Academic Dissemination and Project Communication	3
ARTD8102	Visual Design: Theories and Methods	3
ARTD8103	Design Projects	3
ARTD8104	Local and Global Cultural Industries	3
ARTD8105	Advanced Topics in Digital Art	3
ARTD8106	Advanced Topics in Photography and Video	3
ARTD8107	Artificial Intelligence and New Technologies for Design	3
ARTD8108	Technological Revolution and Design Innovation Workshop	3
<b>Required Electives:</b>		
Students are required to take 1 course from the following courses to obtain 3 credits		3
ARTD8109	Transcultural Aesthetics and Design	
ARTD8110	Design Practices: Entrepreneurship and Professional Management	
<b>Doctoral Thesis:</b>		
ARTD8199	Doctoral Thesis	18
<b>Grand Total:</b>		<b>48</b>

These courses should normally be completed before the Oral Defence. Students who fail a Compulsory Course on the first attempt should re-take the course. A student who is unable to pass a retaken course on a second attempt may be required to discontinue his or her studies.

FACULTY OF ARTS & HUMANITIES

# Master's Degree Programmes

## Master of Arts

- Chinese History and Culture

Year I	Credits
<b>Compulsory Courses:</b>	
CCHC7000 Introduction of Chinese History and Culture	3
CCHC7001 Seminar on Chinese Classics	3
CCHC7004 The Major Transformations in Chinese History	3
CCHC7005 Chinese Literature and Culture in Modern Transition	3
CCHC7006 Macao in Chinese History	3
<b>Required Electives:</b>	
Students should select 1 course from the List of Required Electives	3
<b>Total Credits:</b>	<b>18</b>

Year II	Credits
<b>Compulsory Courses:</b>	
CCHC7002 Ancient Chinese Intellectual History	3
CCHC7003 The Intangible and Spiritual Civilization of Traditional China	3
CCHC7007 Pedagogical Seminar: Curricular Design on Teaching Chinese History, Culture and Language	3
CCHC7991 Project Report	3
<b>Total Credits:</b>	<b>12</b>

	Credits
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives

- CCHC7008 Topics in Chinese Language
- CCHC7009 Chinese History Reflected by Arts and Literature

## Master's Degree Programmes

### Master of Philosophy

#### • Chinese Linguistics

		Credits
<b>Compulsory Courses:</b>		
CHLL7100	Topics in Theories of Chinese Linguistics	3
CHLL7101	Methods in Chinese Linguistics	3
CHLL7102	Studies on Chinese Sociolinguistics	3
CHLL7990	Thesis	12
<b>Required Electives:</b>		
Students should select 3 courses from the List of Required Electives or 3 courses from any other programmes in the Department and the Faculty of Arts and Humanities (with approval from the faculty)		9
<b>Grand Total:</b>		<b>30</b>

#### List of Required Electives of Chinese Linguistics

CHLL7103	Studies on Classical Chinese
CHLL7104	Studies on Modern Chinese
CHLL7105	Topics in Chinese Linguistics I
CHLL7106	Topics in Chinese Linguistics II
CHLL7107	Studies on Chinese Grammar
CHLL7108	Studies on Chinese Phonology
CHLL7110	Studies on Chinese Lexicon



FACULTY OF ARTS & HUMANITIES

# Master's Degree Programmes

## Master of Philosophy

### • Chinese Literature

	Credits
<b>Compulsory Courses:</b>	
CHLL7400 Topics in Traditional Chinese Literature	3
CHLL7401 Topics in Modern Chinese Literature	3
CHLL7402 Topics in Literary Theory	3
CHLL7990 Thesis	12
<b>Required Electives:</b>	
Students should select 3 courses from the List of Required Electives or 3 courses from any other programmes in the Department and the Faculty of Arts and Humanities (with approval from the faculty)	9
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives of Chinese Literature

CHLL7403	Methods in the Study of Traditional Chinese Literature
CHLL7404	Methods in the Study of Modern Chinese Literature
CHLL7405	Topics in Chinese Literature I
CHLL7406	Topics in Chinese Literature II
CHLL7407	Topics in Traditional Chinese Literary Genres
CHLL7408	Topics in Modern Chinese Literary Genres

# Master's Degree Programmes

## Master of Arts

### • English Studies

Year I	Credits
<b>Compulsory Courses:</b>	
Choose 1 from the following courses:	
ENGL7001      Linguistics Research Methods	3
ENGL7024      Critical Reading	
<b>Required Electives:</b>	
7 Required Electives from the Lists of Required Electives*	21
<b>Total Credits:</b>	<b>24</b>
<b>Year II</b>	<b>Credits</b>
<b>Compulsory Courses:</b>	
ENGL7998      Project Report	6
<b>Total Credits:</b>	<b>6</b>
<b>Grand Total:</b>	<b>30</b>

\* Students should choose courses from the Lists of Required Electives in Linguistics and Literature and are allowed to take up to 2 courses (6 credits) from any other programme/major (within FAH), with the permission of the Faculty of Arts and Humanities.

#### List of Required Electives in Linguistics

ENGL7001	Linguistics Research Methods
ENGL7002	Comparative Chinese - English Structure
ENGL7003	Descriptive Linguistics
ENGL7004	Psycholinguistics
ENGL7005	Sociolinguistics
ENGL7006	Syntax - The Structure of English
ENGL7013	Discourse Analysis
ENGL7014	History of English
ENGL7015	Special Topics in Linguistics
ENGL7019	World Englishes
ENGL7020	Bilingualism

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ENGL7021	Cognitive Linguistics
ENGL7022	Corpus Linguistics
ENGL7023	Media Discourse
ENGL7025	Language and Popular Culture
ENGL7504	Course Design for Language Learning
ENGL7505	Current Trends and Issues in Language Learning
ENGL7508	Materials Design and Evaluation
ENGL7509	Phonology

**List of Required Electives in Literature**

ENGL7007	Cinema Studies
ENGL7008	Colonial and Postcolonial Writing
ENGL7009	Drama & Theatre Studies
ENGL7010	Modernity in English Literature
ENGL7011	Romanticism
ENGL7012	Victorian Novels and Poetry (1840 – 1870)
ENGL7016	Genre Studies
ENGL7017	Shakespeare
ENGL7018	Special Topics in Literature
ENGL7024	Critical Reading
ENGL7026	Advanced Cinema Studies
ENGL7027	Asian Diaspora Literature in English
ENGL7028	Representing the Shoah: The Holocaust in Literature, Memoir and Film
ENGL7029	Ecology and Apocalypse
ENGL7030	Nineteenth Century Gothic Fiction

# Master's Degree Programmes

## Master of Fine Arts

		Credits
<b>Compulsory Courses:</b>		
ARTD7000	Art History	3
ARTD7001	Art Theory	3
ARTD7002	Academic Writing for Arts	3
ARTD7003	Art Exhibitions	3
ARTD7998	Project Report	6
<b>Required Electives:</b>		
Students are required to take 2 courses from the following 4 Required Electives to obtain 6 credits:		6
ARTD7004	Perspective and Composition	
ARTD7005	Sketching from Nature and Artistic Creation	
ARTD7006	Digital and New Media Art	
ARTD7007	Professional Practice in Arts	
Students are required to select 1 area of concentration from 'Chinese Painting', 'Western Painting', or 'Digital and New Media', and complete 3 courses depending on the selected concentration to obtain 9 credits:		9
Area of Concentration: Chinese Painting		
ARTD7008	Studio and Professional Practice in Chinese Painting I	
ARTD7009	Studio and Professional Practice in Chinese Painting II	
ARTD7010	Studio and Professional Practice in Chinese Painting III	
Area of Concentration: Western Painting		
ARTD7011	Studio and Professional Practice in Western Painting I	
ARTD7012	Studio and Professional Practice in Western Painting II	
ARTD7013	Studio and Professional Practice in Western Painting III	
Area of Concentration: Digital and New Media		
ARTD7014	Studio and Professional Practice in Digital and New Media I	
ARTD7015	Studio and Professional Practice in Digital and New Media II	
ARTD7016	Studio and Professional Practice in Digital and New Media III	
<b>Grand Total:</b>		<b>33</b>

FACULTY OF ARTS AND HUMANITIES

# Master's Degree Programmes

## Master of Philosophy

### • History

Year I	Credits
<b>Compulsory Courses:</b>	
HIST7780      Advanced Historical Theory and Practice	3
HIST7781      Advanced Reading Seminar	3
HIST7782      Advanced Writing Seminar	3
<b>Required Electives:</b>	
3 courses chosen from the List of Required Electives*	9
<b>Total Credits:</b>	<b>18</b>
Year II	Credits
<b>Compulsory Courses:</b>	
HIST7990      Thesis	12
<b>Total Credits:</b>	<b>12</b>
<b>Grand Total:</b>	<b>Credits 30</b>

\* Students are allowed to take up to 2 courses (6 credits) from any other programme/major of the University of Macau relevant to literature, philosophy or history, with the permission of the programme coordinator.

### List of Required Electives

HIST7000	Approaches to Global History
HIST7001	History of Modern Chinese Political System
HIST7002	Introduction to Study on Modern Chinese History
HIST7003	Perspectives in Macao History
HIST7004	Independent Studies in History
HIST7754	Buddhist Sculptures and Paintings
HIST7757	Late Imperial China
HIST7762	Law and Society in Ancient China

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HIST7765	Buddhist Art: Theory and History
HIST7768	East-West Interactions and Exchanges
HIST7772	Historiography of Southeast Asia
HIST7773	Studies in Imperialism I
HIST7774	Studies in Imperialism II
HIST7783	Special Topics in History I
HIST7784	Special Topics in History II

FACULTY OF ARTS & HUMANITIES

# Master's Degree Programmes

## Master of Arts

### • Philosophy

Year I	Credits
<b>Compulsory Courses:</b>	
PHIL7000 Philosophical Writing and Methodology	3
PHIL7001 Politics, Ethics and Society	3
PHIL7002 Logic and Critical Thinking	3
PHIL7003 Mind and World	3
PHIL7004 History of Western Philosophy	3
PHIL7005 History of Chinese Philosophy	3
<b>Total Credits:</b>	<b>18</b>
Year II	Credits
<b>Compulsory Courses:</b>	
PHIL7998 Project Report	6
<b>Required Electives:</b>	
Students should select 2 courses from the List of Required Electives	6
<b>Total Credits:</b>	<b>12</b>
<b>Grand Total:</b>	<b>30</b>

#### List of Required Electives

PHIL7006	Key Figures and Texts in Asian Philosophy	3
PHIL7007	Key Figures and Texts in Western Philosophy	3
PHIL7008	Philosophy of Science	3
PHIL7009	Practical Philosophy	3
PHIL7010	Comparative Philosophy	3
PHIL7011	World Philosophies	3
PHIL7012	Special Topics in Philosophy	3
PHIL7013	The Meaning of Life	3
PHIL7014	Philosophy of the Metaverse	3

## Master's Degree Programmes

### Master of Philosophy

- **Portuguese Language and Intercultural Studies with Specialization in Applied Linguistics**

	Credits
<b>Compulsory Courses:</b>	
PORT7000 Linguistics Method I	3
PORT7001 Linguistics Method II	3
PORT7013 Thesis and Research Writing Seminar	3
PORT7990 Thesis	12
<b>Required Electives:</b>	
2 courses chosen from the List of Required Electives in Applied Linguistics	6
1 course chosen from within the Master's programmes offered by the Faculty of Arts and Humanities relevant to the programme (with approval from programme coordinator)	3
<b>Grand Total:</b>	<b>30</b>

#### List of Required Electives of Portuguese Language and Intercultural Studies with Specialization in Applied Linguistics

PORT7002	Portuguese for Professional Purposes I
PORT7003	Portuguese for Professional Purposes II
PORT7004	The Process of Language Acquisition (L1 and L2)
PORT7005	Methodology of Teaching Portuguese as a Second Language
PORT7006	Curriculum Planning and Materials Evaluation for Portuguese as a Foreign Language
PORT7007	Developing Reading Skills in Portuguese as a Foreign Language
PORT7008	Supervised Teaching Planning and Practice in Portuguese as a Second Language
PORT7009	Portuguese Sociolinguistics
PORT7010	Special Topic in Portuguese Applied Linguistics I
PORT7011	Special Topic in Portuguese Applied Linguistics II



FACULTY OF ARTS & HUMANITIES

# Master's Degree Programmes

## Master of Philosophy

- **Portuguese Language and Intercultural Studies with Specialization in Literary and Cultural Studies**

		Credits
<b>Compulsory Courses:</b>		
PORT7111	Literary & Cultural Studies Method I	3
PORT7112	Literary & Cultural Studies Method II	3
PORT7013	Thesis and Research Writing Seminar	3
PORT7990	Thesis	12
<b>Required Electives:</b>		
2 courses chosen from the List of Required Electives in Literary and Cultural Studies		6
1 course chosen from within the Master's programmes offered by the Faculty of Arts and Humanities relevant to the programme (with approval from programme coordinator)		3
<b>Grand Total:</b>		<b>30</b>

### List of Required Electives of Portuguese Language and Intercultural Studies with Specialization in Literary and Cultural Studies

PORT7002	Portuguese for Professional Purposes I
PORT7003	Portuguese for Professional Purposes II
PORT7105	Modern Lusophone Literature
PORT7107	Images of the East in Portuguese Language Literature
PORT7108	Macau Literature in Portuguese
PORT7113	Special Topic in Literary and Cultural Studies I
PORT7114	Special Topic in Literary and Cultural Studies II
PORT7115	Intercultural Communication
PORT7116	Grammar and Communication
PORT7117	Literature and Other Arts
PORT7800	Portugal in the Asia-Pacific Region
PORT7803	Relations between China and the Portuguese-Speaking Countries

# Master's Degree Programmes

## Master of Arts

### • Translation Studies (English – Chinese)

Year I		Credits
<b>Compulsory Courses:</b>		
AHGC7000	Comparative Language Studies for Translation	3
AHGC7001	Theoretical Concepts of Translation Studies	3
AHGC7002	Translation Technology	3
<b>Required Electives:</b>		
4 Required Electives chosen from the List of Required Electives*		12
<b>Total Credits:</b>		<b>21</b>
Year II		Credits
<b>Compulsory Courses:</b>		
AHGC7003	Research Design and Writing	3
AHGC7998	Project Report	6
<b>Total Credits:</b>		<b>9</b>
<b>Grand Total:</b>		<b>Credits 30</b>

\* Students are allowed to take no more than 2 courses (6 credit hours) from any other programme/major (within the Faculty of Arts and Humanities), with the permission of the Faculty of Arts and Humanities.

#### List of Required Electives of Translation Studies for English-Chinese Specialization

AHGC7040	A Discoursal Approach to Translation Studies
AHGC7042	Cultural Issues in Translation
AHGC7043	Gender in Translation Studies
AHGC7044	History, Culture and Translation
AHGC7045	Literary Translation
AHGC7046	Literature, Culture and Translation: Language and Ideology
AHGC7047	Reading Translated Works
AHGC7048	Special Topic in Translation I

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AHGC7049	Special Topic in Translation II
AHGC7050	Special Topic in Translation III
AHGC7051	Special Topic in Translation IV
AHGC7052	Translating Cultures
AHGC7053	Translating for the Media
AHGC7054	Translation and Comparative Literature
AHGC7055	Translation of Legal Texts
AHGC7057	Translation of Texts in Popular Culture
AHGC7058	Translation of Texts in the Arts
AHGC7059	Translating Texts in Social Sciences
AHGC7060	Translation Criticism and Assessment
AHGC7061	Translation Project
AHGC7062	Translation Pedagogy
AHGC7063	Translation for Administration and Commerce
AHGC7064	Audio-visual Translation
AHGC7065	Theories and Practice of Interpreting
AHGC7066	Consecutive Interpreting
AHGC7067	Simultaneous Interpreting
AHGC7068	Conference Interpreting

# Master's Degree Programmes

## Master of Arts

### • Translation Studies (Portuguese – Chinese)

Year I		Credits
<b>Compulsory Courses:</b>		
AHGC7000	Comparative Language Studies for Translation	3
AHGC7001	Theoretical Concepts of Translation Studies	3
AHGC7002	Translation Technology	3
<b>Required Electives:</b>		
4 Required Electives chosen from the List of Required Electives*		12
<b>Total Credits:</b>		<b>21</b>
Year II		Credits
<b>Compulsory Courses:</b>		
AHGC7003	Research Design and Writing	3
AHGC7998	Project Report	6
<b>Total Credits:</b>		<b>9</b>
<b>Grand Total:</b>		<b>30</b>

\* Students are allowed to take no more than 2 courses (6 credit hours) from any other programme/major (within the Faculty of Arts and Humanities), with the permission of the Faculty of Arts and Humanities.

### List of Required Electives of Translation Studies for Portuguese-Chinese Specialization

AHGC7014	Chinese – Portuguese Translation
AHGC7015	Portuguese – Chinese Translation
AHGC7016	Interpreting I Chinese/Portuguese
AHGC7017	Interpreting II Chinese/Portuguese
AHGC7040	A Discoursal Approach to Translation Studies
AHGC7042	Cultural Issues in Translation
AHGC7043	Gender in Translation Studies
AHGC7044	History, Culture and Translation
AHGC7045	Literary Translation

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AHGC7046	Literature, Culture and Translation: Language and Ideology
AHGC7047	Reading Translated Works
AHGC7048	Special Topic in Translation I
AHGC7049	Special Topic in Translation II
AHGC7050	Special Topic in Translation III
AHGC7051	Special Topic in Translation IV
AHGC7052	Translating Cultures
AHGC7053	Translating for the Media
AHGC7054	Translation and Comparative Literature
AHGC7055	Translation of Legal Texts
AHGC7057	Translation of Texts in Popular Culture
AHGC7058	Translation of Texts in the Arts
AHGC7059	Translating Texts in Social Sciences
AHGC7060	Translation Criticism and Assessment
AHGC7061	Translation Project
AHGC7062	Translation Pedagogy
AHGC7063	Translation for Administration and Commerce
AHGC7064	Audio-visual Translation
AHGC7065	Theories and Practice of Interpreting
AHGC7066	Consecutive Interpreting
AHGC7067	Simultaneous Interpreting
AHGC7068	Conference Interpreting

# Master's Degree Programmes

## Master of Arts

### • Translation Studies (Portuguese – English)

Year I	Credits
<b>Compulsory Courses:</b>	
AHGC7000 Comparative Language Studies for Translation	3
AHGC7001 Theoretical Concepts of Translation Studies	3
AHGC7002 Translation Technology	3
<b>Required Electives:</b>	
4 Required Electives chosen from the List of Required Electives*	12
<b>Total Credits:</b>	<b>21</b>
<b>Year II</b>	<b>Credits</b>
<b>Compulsory Courses:</b>	
AHGC7003 Research Design and Writing	3
AHGC7998 Project Report	6
<b>Total Credits:</b>	<b>9</b>
	<b>Credits</b>
<b>Grand Total:</b>	<b>30</b>

\* Students are allowed to take no more than 2 courses (6 credit hours) from any other programme/major (within the Faculty of Arts and Humanities), with the permission of the Faculty of Arts and Humanities.

### List of Required Electives of Translation Studies for Portuguese-English Specialization

AHGC7040	A Discoursal Approach to Translation Studies
AHGC7042	Cultural Issues in Translation
AHGC7043	Gender in Translation Studies
AHGC7044	History, Culture and Translation
AHGC7045	Literary Translation
AHGC7046	Literature, Culture and Translation: Language and Ideology
AHGC7047	Reading Translated Works
AHGC7048	Special Topic in Translation I

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AHGC7049	Special Topic in Translation II
AHGC7050	Special Topic in Translation III
AHGC7051	Special Topic in Translation IV
AHGC7052	Translating Cultures
AHGC7053	Translating for the Media
AHGC7054	Translation and Comparative Literature
AHGC7055	Translation of Legal Texts
AHGC7057	Translation of Texts in Popular Culture
AHGC7058	Translation of Texts in the Arts
AHGC7059	Translating Texts in Social Sciences
AHGC7060	Translation Criticism and Assessment
AHGC7061	Translation Project
AHGC7062	Translation Pedagogy
AHGC7063	Translation for Administration and Commerce
AHGC7064	Audio-visual Translation
AHGC7065	Theories and Practice of Interpreting
AHGC7066	Consecutive Interpreting
AHGC7067	Simultaneous Interpreting
AHGC7068	Conference Interpreting
AHGC7282	English – Portuguese Translation
AHGC7283	Portuguese – English Translation
AHGC7284	Interpreting I English/Portuguese
AHGC7285	Interpreting II English/Portuguese

# Master's Degree Programmes

## Master of Design

- Visual Communication Design

		Credits
<b>Compulsory Courses:</b>		
ARTD7100	Visual Communication Design History	3
ARTD7101	Design Research and Academic Writing	3
ARTD7102	Design Projects	3
ARTD7103	Creative Photography and Design	3
ARTD7104	Digital Art and Artificial Intelligence Technology	3
ARTD7105	Contemporary Design and Critique	3
ARTD7106	Transcultural Ways of Life and Design	3
ARTD7107	Branding Design and Management	3
ARTD7198	Project Report	6
<b>Required Electives:</b>		
Students are required to take 1 course from the following required elective courses to obtain 3 credits:		
ARTD7108	Interface and Interaction Design	3
ARTD7003	Art Exhibitions	3
A course from another master's degree programme within the Faculty of Arts and Humanities at the University of Macau (subject to the approval of the Head of the Department of Arts and Design)		3
<b>Grand Total:</b>		<b>33</b>



FACULTY OF ARTS & HUMANITIES

# Bachelor's Degree Programmes

## Bachelor of Arts

- Chinese Language and Literature

Year I		Credits
CHLL1001	Modern Chinese Language	3
CHLL1002	Introduction to Chinese Linguistics	3
CHLL1003	Contemporary Chinese Literature	3
CHLL1004	Modern Chinese Literature	3
2 Required Electives		6
Community and Peer Education Courses		2
Languages and Skills Courses		12
1 Free Elective		3
<b>Total Credits:</b>		<b>35</b>

Year II		Credits
CHLL2000	Classical Chinese Language I	3
CHLL2001	Classical Chinese Literature: Pre-Qin to Tang and Five Dynasties	3
CHLL2002	Classical Chinese Language II	3
CHLL2003	Classical Chinese Literature: Song to Qing Dynasties	3
2 Required Electives		6
Community and Peer Education Courses		1
Languages and Skills Courses		3
4 General Education Courses		12
1 Free Elective		3
<b>Total Credits:</b>		<b>37</b>

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<b>Year III</b>	<b>Credits</b>
CHLL3000 Language Comparison	3
CHLL3001 Literary Theory and Criticism	3
2 Required Electives	6
4 General Education Courses	12
1 Free Elective	3
<b>Total Credits:</b>	<b>27</b>

<b>Year IV</b>	<b>Credits</b>
CHLL4000 Traditional Chinese Literary Theory	3
CHLL4001 Graduation Project I	3
CHLL4002 Comparison between Chinese and Foreign Literatures	3
CHLL4003 Graduation Project II	3
2 Required Electives	6
1 Free Elective	3
<b>Total Credits:</b>	<b>21</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

### List of Required Electives

#### **Year I:**

CHLL1005	Cantonese Language and Culture
CHLL1006	Classical Chinese Poetry
CHLL1007	Classical Chinese Fiction
CHLL1008	Selected Readings in Chinese Historiography

#### **Year II:**

CHLL2004	Topics in Modern and Contemporary Chinese Writers
CHLL2005	World Chinese Literature
CHLL2006	Classical Chinese Prose
CHLL2007	Readings in Pre-Qin Classics
CHLL2008	Modern Chinese Grammar and Pragmatics
CHLL2009	Special Topics in Chinese Lexicon

#### **Year III:**

CHLL3002	Chinese Philology
CHLL3003	Readings of Chinese Linguistics Work
CHLL3004	Bibliography
CHLL3005	South China Literature and Culture
CHLL3006	Chinese Sociolinguistics

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**Year IV:**

CHLL4004	Language Analysis and Research
CHLL4005	Special Topics in Chinese Linguistics I
CHLL4006	Topics in Classical Chinese Literature
CHLL4007	History of Chinese Thought
CHLL4010	Special Topics in Chinese Linguistics II

**List of More Free Electives**

CHLL1009	Creative Writing
CHLL1010	Popular Literature and Culture
CHLL1011	Practical Chinese
CHLL1012	Chinese for Non-Native Speakers I (not for this major)
CHLL1013	Chinese as a Second Language (not for this major)
CHLL2010	Poetry of Tang-Song Period
CHLL2011	Readings in Modern and Contemporary Works
CHLL2012	Languages and Dialects Spoken in Hong Kong and Macao
CHLL2013	Book Editing Knowledge and Skill
CHLL3007	Chinese Dialectology
CHLL3008	Classical Chinese Drama
CHLL3009	Chinese Etymology and Semantics
CHLL3010	Contemporary Practical and Pragmatic Writing
CHLL3011	Special Topics in Literature and Culture of Macao
CHLL3012	Special Topics in Chinese Culture and Fine Arts
CHLL3013	Wen Xin Diao Long
CHLL3014	Special Topics in Classical Literary Genres
CHLL4008	Readings in Chinese Classics
CHLL4009	Chinese Phonetics and Phonology
CHLL4011	Special Topics in Literary Criticism
CHLL4012	Selected Readings in Western Literature
CHLL4013	Special Topics in Literature and Arts

# Bachelor's Degree Programmes

## Bachelor of Arts

### • English Studies

Year I		Credits
ENGL1000	Introduction to Literary Studies I	3
ENGL1001	Introduction to Literary Studies II	3
ENGL1002	Describing the Sounds of English	3
ENGL1003	Introduction to the Study of Language	3
Community and Peer Education Courses		2
Languages and Skills Courses		12
3 General Education Courses		9
<b>Total Credits:</b>		<b>35</b>

Year II		Credits
ENGL2000	Survey of English Literature I	3
ENGL2001	Survey of English Literature II	3
ENGL2002	Introduction to English Grammar	3
ENGL2003	Language and Society	3
Community and Peer Education Courses		1
Languages and Skills Courses		3
4 General Education Courses		12
2 Free Electives		6
<b>Total Credits:</b>		<b>34</b>

Year III		Credits
ENGL3000	Language and Meaning	3
ENGL3001	20 <sup>th</sup> Century and Contemporary Literature in English I	3
ENGL3002	Analyzing Spoken Discourse	3
ENGL3003	20 <sup>th</sup> Century and Contemporary Literature in English II	3

2 Required Electives	6
1 General Education Course	3
1 Free Elective	3
<b>Total Credits:</b>	<b>24</b>

<b>Year IV</b>	<b>Credits</b>
1 Research and Internship Elective Course	3
7 Required Electives	21
1 Free Elective	3
<b>Total Credits:</b>	<b>27</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

**List of Research and Internship Elective Courses**

ENGL4000	Research Report
ENGL4001	Graduation Project

**List of English Major Required Electives**

ENGL2006	Introduction to Interpreting
ENGL3004	Bilingualism
ENGL3008	Language and Cognition
ENGL3009	Syntax
ENGL3011	Language Acquisition
ENGL3014	World Englishes
ENGL3016	Advanced English Structure
ENGL3018	Morphology
ENGL3020	Narrative, Discourse and Identity
ENGL3021	Children's Literature
ENGL3022	Victorian Literature
ENGL3023	Romanticism
ENGL3024	Drama and Theatre
ENGL3027	20 <sup>th</sup> Century American Literature
ENGL3029	Introduction to Literary Criticism
ENGL3030	Shakespeare
ENGL3031	Creative Writing
ENGL3033	The English Renaissance

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ENGL3034	Postcolonial Writing
ENGL3035	World Literatures in English
ENGL3036	Life Narratives
ENGL3038	Major Authors
ENGL3039	Special Topics in Literature I
ENGL3040	Special Topics in Literature II
ENGL3041	Special Topics in Linguistics I
ENGL3042	Special Topics in Linguistics II
ENGL3044	Translation for the Media
ENGL3045	Translation of Business and Legal Writings
ENGL3046	Conference Interpreting
ENGL3047	Translation of Literary Writings
ENGL3051	The Gothic
ENGL4003	Audiovisual Translation

FACULTY OF ARTS & HUMANITIES

# Bachelor's Degree Programmes

## Bachelor of Arts

### • History

Year I		Credits
HIST1000	History of Macao	3
HIST1001	History of China I	3
HIST1002	History of China II	3
HIST1004	Historical Theory and Practice	3
HIST2001	Western Civilizations I	3
Community and Peer Education Courses		3
Languages and Skills Courses		12
2 General Education Courses		6
<b>Total Credits:</b>		<b>36</b>

Year II		Credits
HIST1003	History of China III	3
HIST2002	Western Civilizations II	3
HIST2003	History of Portugal and its Maritime Expansion	3
2 Required Electives in History		6
Languages and Skills Courses		3
5 General Education Courses		15
<b>Total Credits:</b>		<b>33</b>

Year III		Credits
4 Required Electives in History		12
1 General Education Course		3
4 Free Electives		12
<b>Total Credits:</b>		<b>27</b>

<b>Year IV</b>	<b>Credits</b>
Final Year Project Courses <sup>(1)</sup>	9
5 Free Electives	15
<b>Total Credits:</b>	<b>24</b>

  

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

### **Required Electives in History**

Students are required to take 9 Required Electives (27 credits) to fulfil the Required Elective requirement.

- (1) Final Year Project Course requirement: Students are required to complete 2 or 1 research courses (6 credits for option 1 or 3 credits for option 2) as stated in the following table.

<i>Final Year Project Requirement</i>	
<i>Option 1</i>	<i>Option 2</i>
<i>HIST4001 Advanced History Writing I (research course)</i>	<i>HIST4003 Research Project (research course)</i>
<i>HIST4002 Advanced History Writing II (research course)</i>	<i>1 Required Elective in History</i>

\*\* HIST4001/4002/4003 are research courses.

- (2) Required Electives in History: For the remaining Required Elective credits, students are required to complete 7 or 8 courses (21 credits for option 1 or 24 credits for option 2) from the following list of History courses.

HIST1005	History of Modern East Asia
HIST1006	History of the United States
HIST1007	Art History of Ancient China
HIST1008	Art History of Modern China
HIST1009	Historical Sources, Archives and Bibliography
HIST1010	Digital Resources in the Humanities
HIST1011	Cultural Heritage Studies
HIST1012	Museum Studies
HIST2004	Reading of Chinese Classical Documents and Historical Materials
HIST2006	Macao in World History
HIST2007	Worldviews and Mapping in History
HIST2008	History of Southeast Asia
HIST2010	History of Asian Arts
HIST2011	History of Western Arts
HIST2012	Chinese Culture History
HIST2013	History of Japan
HIST2014	Political System of Ancient China
HIST2017	The British Empire and the World
HIST2018	Medical Identities in East and West
HIST2024	History of Foreign Relationships in the Qing Dynasty
HIST3000	Asian Maritime History
HIST3003	History of Chinese Painting
HIST3004	Chinese Buddhist Art
HIST3009	Macao Memory and Archives



HIST3010	Military History of Modern China
HIST3013	Chinese Socio-Economic History
HIST3014	History of Catholicism in China
HIST3015	Jesuits in Ming-Qing China
HIST3021	Special Topics in History

# Bachelor's Degree Programmes

## Bachelor of Arts

### • Japanese Studies

Year I		Credits
JAPN1000	Practical Japanese I	6
JAPN1001	Japanese Grammar I	6
JAPN1002	Practical Japanese II	6
JAPN1003	Japanese Grammar II	6
Community and Peer Education Courses		2
Languages and Skills Courses		9
1 General Education Course		3
<b>Total Credits:</b>		<b>38</b>

Year II		Credits
JAPN2000	Practical Japanese III	3
JAPN2001	Integrated Japanese I	3
JAPN2002	Japanese Reading I	3
JAPN2003	Japanese Composition I	3
JAPN2004	Practical Japanese IV	3
JAPN2005	Integrated Japanese II	3
JAPN2006	Japanese Reading II	3
JAPN2007	Japanese Composition II	3
Community and Peer Education Courses		1
Languages and Skills Courses		6
3 General Education Courses		9
<b>Total Credits:</b>		<b>40</b>

<b>Year III</b>	<b>Credits</b>
JAPN3002 Japanese Research Method I	3
JAPN3005 Japanese Research Method II	3
3 Required Electives	9
4 General Education Courses ***	12
OR	
2 Free Electives***	6
<b>Total Credits:</b>	<b>27 or 21</b>

\*\*\* 4 General Education Courses and Total Credits is 27 (For students not going to exchange in 3<sup>rd</sup> year)  
 2 Free Electives and Total Credits is 21 (For students going to exchange in 3<sup>rd</sup> year)

<b>Year IV</b>	<b>Credits</b>
5 Required Electives	15
1 Free Elective	3
4 General Education Courses***	12
OR	
2 Free Electives***	6
<b>Total Credits:</b>	<b>30 or 24</b>

\*\*\* 4 General Education Courses and Total Credits is 30 (For students returning from exchange)  
 2 Free Electives and Total Credits is 24 (For students not going to exchange or going to exchange in 4<sup>th</sup> year)

	<b>Credits</b>
<b>Grand Total:</b>	<b>129</b>

**List of Japanese Studies Required Electives**

JAPN3000	Business Japanese I
JAPN3003	Selected Readings in Modern Japanese I
JAPN3004	Business Japanese II
JAPN3006	Selected Readings in Modern Japanese II
JAPN3007	Practical Japanese V
JAPN3008	Practical Japanese VI
JAPN3009	Translation and Interpretation I
JAPN3010	Translation and Interpretation II
JAPN3011	Special Topics on Japan I
JAPN3012	Special Topics on Japan II
JAPN4015	Japanese Literature I
JAPN4016	Japanese Literature II

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JAPN4018	Special Topics in Humanities I
JAPN4019	Special Topics in Humanities II
JAPN4024	Special Topics in Social Sciences I
JAPN4025	Special Topics in Social Sciences II
JAPN4030	Advanced Practical Japanese I
JAPN4031	Advanced Practical Japanese II
JAPN4032	Japanese Society and Culture I
JAPN4033	Japanese Society and Culture II
JAPN4034	Japanese Linguistics I
JAPN4035	Japanese Linguistics II

## FACULTY OF ARTS &amp; HUMANITIES

# Bachelor's Degree Programmes

## Bachelor of Arts

### • Portuguese Studies

Year I	Credits
PORT1002 Oral Comprehension and Production Skills I	6
PORT1003 Written Comprehension and Production Skills I	6
PORT1004 Oral Comprehension and Production Skills II	6
PORT1005 Written Comprehension and Production Skills II	6
PORT1006 Languages and Skills – Portuguese Language and Culture I <sup>1</sup>	3
PORT1007 Portuguese Language and Culture II	3
Community and Peer Education Courses	2
Languages and Skills Courses	6
<b>Total Credits:</b>	<b>38</b>

Year II	Credits
PORT2006 Oral Comprehension and Production Skills III	6
PORT2007 Written Comprehension and Production Skills III	6
PORT2012 Oral Comprehension and Production Skills IV	6
PORT2013 Written Comprehension and Production Skills IV	6
Community and Peer Education Courses	1
Languages and Skills Courses	6
2 Free Electives	6
<b>Total Credits:</b>	<b>37</b>

Year III	(Exchange/Study Abroad)*	Credits
PORT3002	Practical Writing for Professional Purposes I	3
PORT3011	Practical Writing for Professional Purposes II	3
PORT3019	Advanced Oral Comprehension and Production Skills I	3
PORT3020	Advanced Oral Comprehension and Production Skills II	3
2 Required Electives		6

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2 General Education Courses	6
1 Free Elective	3

1 Required Elective from the following:

1<sup>st</sup> Semester

PORT3004	Translation I (Portuguese to Chinese)
PORT3005	Introduction to Linguistics
PORT3006	Introduction to the Study of the Literature of the Portuguese-speaking World I
PORT3007	Modern and Contemporary History of the Portuguese-speaking Countries I
PORT3008	Special Topics I
PORT3009	Special Topics II

1 Required Elective from the following:

2<sup>nd</sup> Semester

PORT3013	Translation II (Chinese to Portuguese)
PORT3014	Portuguese Linguistics: Grammar
PORT3015	Introduction to the Study of the Literature of the Portuguese-speaking World II
PORT3016	Modern and Contemporary History of the Portuguese-speaking Countries II
PORT3017	Special Topics III
PORT3018	Special Topics IV

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<b>Total Credits:</b>	<b>27</b>
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<b>Year IV</b>	<b>Credits</b>
PORT4001 Research and Report Writing Skills	3
PORT4008 Graduation Project**	3

2 Required Electives	6
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6 General Education Courses	18
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1 Required Elective from the following:

1<sup>st</sup> Semester

PORT4002	Advanced Translation I (Portuguese to Chinese)
PORT4003	Interpreting I (Portuguese to Chinese)
PORT4004	Teaching Portuguese as a Foreign Language I
PORT4005	Contemporary Society and Institutions of the Portuguese-speaking Countries I
PORT4006	Special Topics V
PORT4007	Special Topics VI

1 Required Elective from the following:

2<sup>nd</sup> Semester

PORT4011	Advanced Translation II (Chinese to Portuguese)
PORT4012	Interpreting II (Chinese to Portuguese)
PORT4013	Teaching Portuguese as a Foreign Language II
PORT4014	Contemporary Society and Institutions of the Portuguese-speaking Countries II
PORT4015	Special Topics VII
PORT4016	Special Topics VIII
PORT4017	Portuguese Language Drama

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<b>Total Credits:</b>	<b>30</b>
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	<b>Credits</b>
<b>Grand Total:</b>	<b>132</b>

\* Students will follow this study plan if they do not go Exchange/Study Abroad. For students who go to Exchange/Study Abroad, they will be required to enroll similar courses in exchange university.

\*\* Research course

Students majoring in Portuguese Studies are required to complete the course, Portuguese Language and Culture I, to fulfill the Chinese/Portuguese language requirement in Languages and Skills.

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## Course Description

### **AHGC7000 COMPARATIVE LANGUAGE STUDIES FOR TRANSLATION**

This course is concerned with the comparative description of the morpho-syntax of Chinese and Portuguese, Chinese and English, and Portuguese and English. For the English-Chinese Specialization, the course is designed to compare and contrast English and Chinese in major linguistic aspects. We survey the relevant literature and introduce several theoretical concepts and analytical frameworks, drawing implications for translation studies. The aim is to develop students' competence to conduct contrastive linguistic analysis and draw relevance to translation studies. Learning activities consist of workshops, in-class discussions, tasks and projects. For the Portuguese-Chinese and Portuguese-English Specializations, the course is concerned with the comparative description of Chinese and Portuguese / English and Portuguese in morpho-syntax, lexical semantics and text, with the aim of provide the students with the necessary methodological tools to perform a thorough analysis of the source text and produce an equivalent target text.

Pre-requisite: None

### **AHGC7001 THEORETICAL CONCEPTS OF TRANSLATION STUDIES**

This course covers contemporary concepts and approaches to translation. It surveys different strategies and techniques in the translation theory and methodology literature, discusses the critical evaluation of translations, and introduces aspects of modern translation tools. It furnishes the student with a grounding in the principal theories of translation studies and practice essential to the practicing professional and basic to academic research in the discipline.

Pre-requisite: None

### **AHGC7002 TRANSLATION TECHNOLOGY**

This course surveys computer-aided and computer-based methods and approaches used in the translation area. For the English-Chinese Specialization, the course is focusing on Computer Aided Translation (CAT). It aims to acquaint scholars of translation studies with prominent and cutting-edge technology for translation. The course will introduce both Machine Translation (MT) and Translation Memory (TM) systems in addition to the use of the Internet, Web-based translation aids and other applications that can aid translation. The course will also involve selected readings in the history and evolution of Machine Translation and current developments in in the field. For the Portuguese-Chinese and Portuguese-English Specializations, the course is designed to prepare the students for professional computer-aided and computer-based approaches that used in the translation area. The course aims to focus on introducing the students to the linguistic concepts and basic theories in computer, translation, and machine translation. Concentrating on the mainstream developments and providing some interaction with the technologies, such as thesaurus, dictionaries, translation memory system, translation software and cognition tools.

Pre-requisite: None

### **AHGC7003 RESEARCH DESIGN AND WRITING**

For the English-Chinese Specialization, the course is a practical seminar designed to train students in the formulation of advanced research projects in the area of translation or interpreting. It is intended as a springboard for the development of a dissertation topic. The student will be required to identify relevant research questions and conduct systematic and creative research thereon from a theoretical and practical framework, presenting papers to the class on the development of their projects. For the Portuguese-Chinese and Portuguese-English Specializations, the course aims to familiarize students with essential methodological tools in the area of Humanities and specifically applied to translation studies, which will help students to prepare their dissertations; research reports and papers/articles.

Pre-requisite: None



#### **AHGC7014 CHINESE – PORTUGUESE TRANSLATION**

This course aims to familiarize students with the differences between Chinese and Portuguese languages, to learn the nature, methods, standards and common translation techniques, to engage in extensive translation practice and learn how to translate different types of texts. Students will focus on how to determine the meaning of words from context, how to choose the most reasonable interpretation in the target language, and to deal flexibly with long sentences. Pre-requisite: None

#### **AHGC7015 PORTUGUESE – CHINESE TRANSLATION**

This course aims to familiarize students with the differences between Portuguese and Chinese languages, to learn the nature, methods, standards and common translation techniques, to engage in extensive translation practice and learn how to translate different types of texts. Students will focus on how to determine the meaning of words from context, how to choose the most reasonable interpretation in the target language, and to deal flexibly with long sentences. Pre-requisite: None

#### **AHGC7016 INTERPRETING I CHINESE/PORTUGUESE**

This course will concentrate on basic interpreting skills as a basis for more advanced interpreting training. It will cover skills such as note taking, memory span improvement, sight translation and the basics of consecutive interpreting. Students will undertake practical training in the language laboratory.

Pre-requisite: None

#### **AHGC7017 INTERPRETING II CHINESE/PORTUGUESE**

This course will work further with sight interpreting and consecutive interpreting, while advancing to simultaneous interpreting. The student will be exposed to a wide range of topic areas, including business, socio-political topics, and advances in science and technology. Students will undertake practical training in the language laboratory.

Pre-requisite: None

#### **AHGC7040 A DISCOURSAL APPROACH TO TRANSLATION STUDIES**

This course offers a translation study oriented examination of the use of language by English and Chinese communities. It takes the discourse approach to the study based on different theoretical perspectives: the social theory of language, known as systemic functional linguistics, speech act theory, pragmatic theory and the relevance theory. With both spoken interaction and written texts as objects of analysis, this course involves the study of both language form and function. It identifies linguistics features that characterize different genres as well as social and cultural factors that aid in the understanding and interpretation of different texts.

Pre-requisite: None

#### **AHGC7042 CULTURAL ISSUES IN TRANSLATION**

For the English-Chinese Specialization, the course addresses the sociocultural dimension of translation. Cultural context and cross-cultural recontextualization are incorporated into and inseparable from the actual practice of translation. Special attention is given to cross-cultural communication in terms of information structure, cohesion, and pragmatics, as well as to the interpretation of power relations and the issue of reception. Students will be introduced to various aspects of cross-cultural and intercultural communication in order to explore their normative understanding of how cultural factors influence mediation and negotiation in dealing with potential cultural conflicts in translation. For the Portuguese-Chinese and Portuguese-English Specializations, the course considers the notion of a cultural transfer in text translation. Particular attention will be paid to cross-cultural matters of information structure, cohesion and pragmatics, and to questions of reception and power relations. The student will develop an advanced understanding of the notion of cultural transfer, and the ability to identify and mediate its conditioning influence in the process of translation.

Pre-requisite: None

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#### **AHGC7043 GENDER IN TRANSLATION STUDIES**

This course introduces students to a general understanding of the theories and practices of feminism and issues related to gender, language and translation. It will examine questions of sexism in language, subjectivities and writing, text and representation, cultural identity and politics of transmission in the context of Chinese and English. Texts to be examined may include original and translated works of feminist theories, writing on gender issues and works of women writers.

Pre-requisite: None

#### **AHGC7044 HISTORY, CULTURE AND TRANSLATION**

For the English-Chinese Specialization, the course is designed to brief students with a general idea of translation, history, and culture, aiming to help students to be able to situate translation in historical and cultural contexts. It is designed to meet two learning objectives: firstly, it introduces the basic concepts of translation, the cultural issues involved in translation, the history of translation in the West and that in China, and the Chinese and Western thinking on translation. Secondly, it discusses various translation projects situated in different historical and cultural contexts, aiming to provide students with a comprehensive knowledge of translation strategies and related research methodologies and how to work on their own translation projects. For the Portuguese-Chinese and Portuguese-English Specializations, this general introduction to the history of translation focuses on the long relationship between Chinese language and the Western European languages, and considers other translation traditions where relevant. The first part of the course examines the works, activities, and roles of important translators in history, with special reference to Macao's pivotal role in the history of translation. The second part of the course will look at the role of translation in the dissemination of knowledge, culture, law and trade.

Pre-requisite: None

#### **AHGC7045 LITERARY TRANSLATION**

This course will introduce students to approaches to literary translation. Students will learn to identify the linguistic, stylistic and cultural features of literary texts as well as to formulate strategies for translating those literary works. Students are trained to examine the particularities of different literary genres, such as fiction, prose and poetry, and the special strategies required for their translation. Seminars will be conducted for practice of translating various literary texts.

Pre-requisite: None

#### **AHGC7046 LITERATURE, CULTURE AND TRANSLATION: LANGUAGE AND IDEOLOGY**

This course will introduce the concept of translation and explore its implications for literature, culture, and ideology. Students will examine how translation can shape the meaning of a text, as well as how literature and culture are interrelated and how they can be used to convey certain ideas and ideologies. In addition, students will learn to recognize and analyze the different approaches used by writers of different cultural backgrounds. Through reading and discussing relevant works, students will explore how literature can be interpreted through the lens of ideology. They will analyze how different interpretations of a text can be used to communicate different messages and meanings. Examples of the questions which may be explored include gender, race, colonialism, post-colonialism, humanism and religion. These questions will be discussed on two levels: (i) comparison of different writers' approaches within the same broad cultural tradition, and (ii) comparison of approaches between different cultural traditions. Through these discussions, students will develop an understanding of some of the major concerns of writers in different cultural traditions. Texts of different genres and backgrounds will be selected for discussion.

Pre-requisite: None

#### **AHGC7047 READING TRANSLATED WORKS**

This course aims at learning from good examples that, nevertheless, can be treated critically. This course will cover a variety of texts and genres, and above all, it aims at learning from

master translators and focuses on the study of translation classics from the Chinese and the Portuguese into English and vice versa.

This course will focus on the study of selected works of translation and study the various aspects of translation, from the linguistic and stylistic to the cultural and ideological. It will also discuss the various challenges of translating between Chinese and Portuguese. Throughout the course, students will have the opportunity to analyze and discuss a variety of texts and genres. In addition to the study of good examples of translations, students will also be asked to take a critical approach to the translations they are studying. In addition, the course will also include theoretical discussions on translation and its challenges, as well as hands-on activities to put the theoretical knowledge into practice.

Pre-requisite: None

#### **AHGC7048 SPECIAL TOPIC IN TRANSLATION I**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff.

Pre-requisite: None

#### **AHGC7049 SPECIAL TOPIC IN TRANSLATION II**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff.

Pre-requisite: None

#### **AHGC7050 SPECIAL TOPIC IN TRANSLATION III**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff.

Pre-requisite: None

#### **AHGC7051 SPECIAL TOPIC IN TRANSLATION IV**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff.

Pre-requisite: None

#### **AHGC7052 TRANSLATING CULTURES**

For the English-Chinese Specialization, the course will explore the cultural, literary, and linguistic exchanges that have taken place between East and West as a result of translation. We will examine the effects of translation on the formation of new cultural identities, and explore how translation has helped to break down cultural barriers and create a new understanding of the world. Students are introduced to the critical treatment of selected translated texts, which requires in-depth and sophisticated analysis of the texts. This activity encourages students to think critically and to develop an understanding of the nature of translation that goes beyond the literal meaning. Students need to develop an understanding of how the translator has used their language to convey meaning and to convey the cultural context of the original text. In particular, students need to evaluate the translator's choices in terms of accuracy and acceptability in cultural terms. General problems in cultural representation will be discussed with particular reference to the systematically used cultural stereotypes such as 'the Orient' and 'the Occident'. For Portuguese-Chinese and Portuguese-English Specializations, the course aims to alert students to the issues that arise in the translation process, both from a cultural, theoretical and practical point of view.

Pre-requisite: None

#### **AHGC7053 TRANSLATING FOR THE MEDIA**

For English-Chinese Specialization, the course focuses on the translation of journalistic articles

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and advertisements in the print/electronic media. Translation strategies and methods applicable to English-Chinese translation of this genre will be reviewed with special attention to the linguistic, stylistic and cultural differences between media texts in Chinese and English. The course adopts a functionalist approach and discusses how they can inform decisions regarding loyalty and liberty in translation. Real-life translation projects will be simulated and students will be required to do group presentations on their translations.

For Portuguese-Chinese and Portuguese-English Specializations, students will learn in the course the basic techniques for translating for the media, including newspapers, news magazines, and press releases. Students will study and compare the linguistic, stylistic, and cultural features of writing for the media in Portuguese and Chinese / Portuguese and English, then learn approaches for translating such texts between the two working languages. Attention will also be paid to the standard reference tools for this kind of translation.

Pre-requisite: None

#### **AHGC7054 TRANSLATION AND COMPARATIVE LITERATURE**

This course aims to assess the place and function of translation within the wider domain of comparative literature through the representative works of major scholars in translation and literature and thus to enable students to achieve a critical awareness of social, literary, and cultural issues crucial to translation and comparative studies. Students on the course will have the opportunities to compare and analyze commonalities and divergences, identities and discontinuities in the aesthetic transmission of texts between the Chinese / English / Portuguese literary traditions. Besides technical details, this course will also lay emphasis on helping students look into larger intercultural issues involved in a perception of translation and comparative literature.

Pre-requisite: None

#### **AHGC7055 TRANSLATION OF LEGAL TEXTS**

This course is concerned with the translation of legal documents within the context of Macao Law, covering a wide range of document types, including informational documents, common legal documents, and specialized and technical documents such as, for example, contracts, and legal forms. Particular attention will be paid to translation problems associated with the legal text, including legal equivalence, terminology, register, structural layout.

Pre-requisite: None

#### **AHGC7057 TRANSLATION OF TEXTS IN POPULAR CULTURE**

This is a translation course which focuses on popular culture in the English-, the Portuguese- and/or the Chinese-speaking worlds. Selected texts from areas such as cinema, popular music, popular novels, newspaper columns, magazines, advertisements, and TV programmes, and related criticism, will be used as materials for students to practise translation. Concepts and theories of the formation of different cultural phenomena and cultural representations will be introduced. Students will be encouraged to discuss how cultural elements work in the process of translating texts which might involve dialects, subcultures and local cultural interests of different societies. In order to reach these objectives, during the semester we will carry out the following activities: critical reading of Translation Studies (TS) articles and seminal texts; critical reading of bilingual texts (literary and non-literary texts); translation practices; and group discussions.

Pre-requisite: None

#### **AHGC7058 TRANSLATION OF TEXTS IN THE ARTS**

In this course the students will learn the basic terminology, vocabulary and techniques for translating texts in the arts, primarily in music, painting and films.

Students will be required to translate either (i) programme notes of recitals and concerts, and TV/Radio talks on music; or (ii) catalogues of exhibitions and museum collections of items of arts and antiques; or (iii) films.

Pre-requisite: None

### **AHGC7059 TRANSLATING TEXTS IN SOCIAL SCIENCES**

This course will introduce students to the basic socio-political concepts used in different cultures. It aims to enable students to compare and reflect on these social issues and socio-cultural concepts when they are used in the contexts of both Chinese and Western societies. It will provide students with a historical background of when and how these concepts are introduced, in Chinese, English and/or Portuguese. Samples of writing in the social sciences, including economics, political science, sociology and anthropology, will be selected and students are required to work on their translation.

Pre-requisite: None

### **AHGC7060 TRANSLATION CRITICISM AND ASSESSMENT**

Translation criticism is the practice of examining, evaluating, and analyzing translations of literary texts. The assessment of a translation can involve making judgments about a range of topics, such as the accuracy of the translation, its adherence to the original text, its readability, its clarity and fluency, its style, its cultural appropriateness, and its overall effectiveness. Translation criticism is ultimately concerned with the question of how faithfully a translator has managed to convey the original author's meaning and intent in the translated text. Translation criticism is ultimately concerned with the question of how accurately and reliably a translator has managed to convey the original author's meaning and intent in the translated text as well as the overall quality of translation.

Pre-requisite: None

### **AHGC7061 TRANSLATION PROJECT**

The student will have to translate a substantial piece of text of a particular genre. The course involves close reading of some of the iconic translation works, as well as introducing students to translation concepts, procedures and methods. Discussion sessions will be conducted on how to solve translation problems and how strategic decisions are to be made. The instructor will give guidances and comments during the translation process and students will learn to evaluate their own translation and articulate their translation experience.

Pre-requisite: None

### **AHGC7062 TRANSLATION PEDAGOGY**

This course examines theories of translation teaching, from a perspective which takes into account the needs of the didactics of translation and of interpreting. Detailed analysis of syllabuses will be presented to make students aware of recent trends in the teaching of translation. The use of new technologies for the teaching of translation skills will be emphasized.

Pre-requisite: None

### **AHGC7063 TRANSLATION FOR ADMINISTRATION AND COMMERCE**

This course focuses on practical translation of various types of business and administrative texts – e.g., business correspondence, reports, marketing materials, accounting documents, contracts, and policy addresses. We also discuss some relevant research studies in relation to the translation for administration and commerce. We aim to (a) improve students' translation skills and (b) help their ability to relate translation problems to relevant research of the field.

Pre-requisite: None

### **AHGC7064 AUDIO-VISUAL TRANSLATION**

This is an introduction to audiovisual translation (AVT). It is concerned with the nature, characteristics, and translation principles and approaches pertaining to this particular type of translation in the service of dubbing as well as subtitling. Emphasis will be placed on seeking optimum effect through applying AVT-specific translation strategies and techniques in overcoming problems that stem from the conflict between the medium constraints and translatability of culture-bound elements in the context of required immediate comprehensibility of the translation consumer.

Pre-requisite: None

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### **AHGC7065 THEORIES AND PRACTICE OF INTERPRETING**

This course aims to introduce both the emerging field of Interpreting Studies and the practice of Interpreting to post-graduate learners. Through selected readings, the course will explore fundamental differences between written translation and oral interpreting besides discussing current approaches to research in the field. The course itself will be conducted in training labs where learners will be drawn into the practice through assignments and interpreting of a variety of texts.

Pre-requisite: None

### **AHGC7066 CONSECUTIVE INTERPRETING**

This course focuses on the consecutive mode of interpreting. Traditional and contemporary translation/interpreting principles will be introduced. Practical targeted progressive exercises on essential skills will be conducted in laboratories. This course aims to help students acquire the essential skills for consecutive interpreting, become acquainted with the consecutive interpreting process, understand the role of the consecutive interpreter in the local and global contexts, understand the pros and cons of remote consecutive interpreting, explore how modern technologies will help improve performance, identify areas for progression and identify possible career paths. Students will be encouraged to look at existing theories and methods of training critically with the aim of developing more effective strategies. The course will also introduce students to topics and methods in interpreting studies with the aim of helping students acquire research methods, identify research topics and develop research projects in interpreting.

Pre-requisite: None

### **AHGC7067 SIMULTANEOUS INTERPRETING**

This course focuses on the simultaneous mode of oral interpreting. Through introducing major trends of traditional and contemporary translation theories and principles, practical targeted progressive exercises conducted in laboratories and fieldwork, the course will help students acquire the essential knowledge and skills of simultaneous interpreting, understand the role of the interpreter in different contexts, as well as looking at the opportunities and challenges for the interpreter in the current world. Students will be encouraged to look at existing theories and methods of training critically with the aim of developing more effective strategies. The course will also introduce students to topics and methods in interpreting studies with the aim of helping students acquire research methods, identify research topics and develop research projects in interpreting.

Pre-requisite: None

### **AHGC7068 CONFERENCE INTERPRETING**

This course is designed to provide students with training in conference interpreting, which includes both simultaneous interpreting and consecutive interpreting. Major trends of traditional and contemporary translation theories and principles will be introduced. Practical targeted progressive exercises on essential skills will be conducted in laboratories. Students will be introduced to internationally accepted codes of conduct for interpreters and conference management and gain hands on experience through guided in-house or external assignments, including field trips. Students will be encouraged to look at existing theories and methods of training critically with the aim of developing more effective strategies. The course will also introduce students to topics and methods in interpreting studies with the aim of helping students acquire research methods, identify research topics and develop research projects in interpreting.

Pre-requisite: None

### **AHGC7282 ENGLISH – PORTUGUESE TRANSLATION**

This course aims to familiarize students with the differences between English and Portuguese languages, to learn the nature, methods, standards and common translation techniques, to engage in extensive translation practice and learn how to translate different types of texts. Students will focus on how to determine the meaning of words from context, how to choose the

most reasonable interpretation in the target language, and to deal flexibly with long sentences.  
Pre-requisite: None

### **AHGC7283 PORTUGUESE - ENGLISH TRANSLATION**

This course aims to familiarize students with the differences between Portuguese and English languages, to learn the nature, methods, standards and common translation techniques, to engage in extensive translation practice and learn how to translate different types of texts. Students will focus on how to determine the meaning of words from context, how to choose the most reasonable interpretation in the target language, and to deal flexibly with long sentences.  
Pre-requisite: None

### **AHGC7284 INTERPRETING I ENGLISH/PORTUGUESE**

This course will concentrate on basic interpreting skills as a basis for more advanced interpreting training. It will cover skills such as note taking, memory span improvement, sight translation and the basics of consecutive interpreting. Students will undertake practical training in the language laboratory.  
Pre-requisite: None

### **AHGC7285 INTERPRETING II ENGLISH/PORTUGUESE**

This course will work further with sight interpreting and consecutive interpreting, while advancing to simultaneous interpreting. The student will be exposed to a wide range of topic areas, including business, socio-political topics, and advances in science and technology. Students will undertake practical training in the language laboratory.  
Pre-requisite: None

### **AHGC7302 SECOND LANGUAGE ACQUISITION**

This course will examine current theories of second language acquisition, in relation to the acquisitional process, developmental stages, and external factors conditioning acquisition, including the effects of the first language, age of acquisition, motivation, instructional context and the nature of input. Topics discussed will include the critical period hypothesis, cross-linguistic influences, individual differences such as cognition, affect and language aptitude.  
Pre-requisite: None

### **AHGC7303 EVALUATION AND ASSESSMENT OF LANGUAGE USE**

This course is an introduction to the field of language assessment. Topics covered in the course include purpose and context of testing, assessing skills and components of language ability, content analysis of test instruments, and statistical analysis of test performance data, and fairness and justice in language assessment.  
Pre-requisite: None

### **AHGC7304 ENGLISH PEDAGOGICAL GRAMMAR**

This course focuses on a systematic review of the grammatical difficulties common to learners of English, particularly learners whose first language is Chinese. There is a focus on devising clear descriptions of grammatical patterns from a learner's perspective, diagnosing learners' grammatical errors, and devising linguistically informed and appropriate strategies to assist learners to understand and correct these errors.  
Pre-requisite: None

### **AHGC7305 METHODOLOGY OF TEACHING ENGLISH AS A SECOND LANGUAGE**

This course addresses the application of current methodologies in the teaching of English as a Second Language. Developments in linguistics, educational and psychological studies lead to constant new input to foreign language teaching methodology and practice. The course introduces the student to major current practices and how research-driven innovations are developed in current practice.  
Pre-requisite: None

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### **AHGC7306 RESEARCH METHODS IN APPLIED LINGUISTICS**

The purpose of this course is to introduce the major components of theoretical and action research as carried out in language learning and teaching. Students read a variety of case studies on theoretical and action research with a focus on understanding and evaluating study design, procedures, analyses, as well as the use of electronic resources. They consider the process of literature review in the development of research questions and develop a proposal for their own research project.

Pre-requisite: None

### **AHGC7307 SUPERVISED TEACHING PLANNING AND PRACTICE IN ENGLISH AS A SECOND LANGUAGE**

- 1) reviews and discussions of teaching methodologies/approaches and reflections on effective pedagogy in specific teaching and learning contexts;
- 2) classroom observations and teaching practice under the supervision of the course instructor and a mentor teacher (engaging in every aspect of classroom teaching, including lesson planning and execution of lessons, interaction and feedback, assessment and evaluation, among other things);
- 3) a potential action research based on your observation and analysis of potential issues in that particular educational and instructional context.

Pre-requisite: AHGC7305

### **AHGC7308 SPECIAL TOPICS IN APPLIED LINGUISTICS I**

This course is designed to offer visiting scholars, existing or future staff, the opportunity to offer courses in their particular area of specialization. The topic and content of the courses will vary from year to year depending on the availability of expert staff. Examples of specialized topics that may be offered include: data-driven learning, computer-adaptive language testing, automated scoring, corpus-based EAP (English for academic purposes), etc.

Pre-requisite: None

### **AHGC7309 SPECIAL TOPICS IN APPLIED LINGUISTICS II**

This course is designed to offer visiting scholars, or existing staff, the opportunity to offer postgraduate level students courses in their particular area of specialization. The topic and content of the courses will vary from year to year depending on the availability of expert staff. Examples of specialized topics that may be offered include: Second Language Reading; Intercultural Language Education; Teaching English for Academic Purposes; Teaching Business English; etc.

Pre-requisite: None

### **AHGC7310 IT & LANGUAGE TEACHING AND LEARNING**

This course focuses on the application of IT, digital technology and new media in language education. The students are introduced to current software, mobile applications and classroom facilities (e.g. smartboards) and they explore the principles used in integrating new technology into teaching and learning inside and outside the classroom.

Pre-requisite: None

### **AHGC7311 LITERATURE AND ENGLISH LANGUAGE LEARNING**

This course considers the role of literature in language learning from a theoretical and practical perspective. Topics covered may include the role of literature in the service of linguistic imperialism, the role of stylistics in grammar instruction, and the place of the literary text in communicative and intercultural language learning task design.

Pre-requisite: None

### **AHGC7312 TEACHING THE LANGUAGE SKILLS**

This course focuses on the teaching and learning of specific language skills, broadly reading, writing, listening and speaking. There is also coverage of discrete subskills, such as pronunciation, or reading and listening for gist and detail, and discussion of process and



product-oriented perspectives on writing and speaking. Students consider different approaches to the teaching of skills and evaluate and design tasks that promote skills development.  
Pre-requisite: None

### **AHGC7313 TRANSLATION & APPLIED LINGUISTICS**

This course looks at the historical, current and contested role of translation in the language classroom. The course covers theoretically-informed practice, from the unfashionable era of 'grammar translation' to the current re-evaluation of the role of translation practices in language learning and teaching.  
Pre-requisite: None

### **AHGC7314 CLASSROOM INTERACTION**

This course focuses on the nature of classroom discourse. Various models of discourse analysis are introduced, and students apply them to different situations to analyze styles of learning and teaching. Classes studied range from traditional to progressive, and the language of learning may be English, Portuguese and/or Chinese.  
Pre-requisite: None

### **AHGC7396 APPLIED THESIS**

Under the supervision of an instructor, each individual student designs, carries out and writes up a substantial piece of action research based on classroom observation and/or teaching.  
Pre-requisite: AHGC7306/PORT7000

### **AHGC7399 ACADEMIC THESIS**

Under the supervision of an instructor, each individual student designs, carries out and writes up a substantial piece of theoretical research based on an in-depth study of a particular research area, a review of the research literature, the formulation of relevant research questions, and the development of a method of addressing these questions.  
Pre-requisite: AHGC7306/PORT7000

### **AHGC7998 PROJECT REPORT**

The students will need to produce a report (6000 to 9000 words) in which they discuss some important aspects/areas of a substantial translation project or interpreting project that they have completed. The students can describe their project with regards to its nature, background, major components, and relevant procedures and processes. They can elaborate on the project's characteristics and (special) requirements, and evaluate their own performance, particularly in relation to some difficulties or challenges, reflecting on their use of tactics, strategies and solutions. The Project Report can also address some technical, practical and ethical issues or topics.

Pre-requisite: AHGC7003 and an average minimum GPA of 2.7 in not less than two-thirds of the course requirement.

### **AHGC8000 RESEARCH ETHICS**

The course Research Ethics will be conducted online. PhD students will be required to pass the web-based learning modules in the CITI Programme (Collaborative Institutional Training Initiative at the University of Miami). Human Subjects Research – Social-Behavioral-Educational (SBE) Modules that was picked for FAH PhD students, content includes history and ethical principles, defining research with human subjects, the federal regulations, assessing risk, informed consent, privacy and confidentiality, research with prisoners and with children, research in public elementary and secondary schools, international and internet-based research, unanticipated problems and reporting requirements in social and behavioural research.

Pre-requisite: None

### **ARTD7000 ART HISTORY**

The fourteen seminars of this course are organized in chronological order, with each focusing

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on one historical period and its corresponding artistic themes, ranging from Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, Cubism, Fauvism, Constructivism, Dadaism, Surrealism, Abstract Expressionism, to Minimalism, and the list goes on. The seminar will examine the multiple-layered modernity and contemporariness of these art movements by contextualizing them in the sociocultural transformations, as well as their relationships with public audiences, urban cities, and global cultures. Through this course, students will not only enhance their understanding of the historical mode of Western modern and contemporary art, but they will also cultivate their keen insights into the humanistic thoughts related to the evolving art movements, such as humanism, modernism, and post-modernism.

Pre-requisite: None

#### **ARTD7001 ART THEORY**

This course aims to investigate art theory, aesthetics, and philosophy related to the formal and perceptual aspects of arts and creative media. It sheds light on how art communicates and what art expresses through different styles, genres and media. The goal is for students to develop a holistic understanding of art, which serves as fundamental training for artists and art researchers.

Pre-requisite: None

#### **ARTD7002 ACADEMIC WRITING FOR ARTS**

This course focuses on the practice of writing. Considering writing as a creative practice, this course aims to guide students to articulate their artistic ideas and works clearly and eloquently. The specific content of this course centers on formulating and developing arguments, evaluating artistic works, stating the goals and process of artistic projects, expressing personal experimentation with art, analyzing different features of artistic media and forms, and explaining aesthetic and cultural characteristics of artworks.

Pre-requisite: None

#### **ARTD7003 ART EXHIBITIONS**

This course focuses on the study of the most important aspects of the modern art system: exhibitions. Through the organic composition of three sections: exhibition theory, exhibition techniques and exhibition practice, the course attempts to let students understand the mechanism of how modern art exhibitions operate, and guides students to participate in the planning and management of art exhibitions based on the analysis of famous exhibition cases, both domestic and international, so as to serve the needs of the Macao SAR Government's strategy of moderate cultural diversification.

Pre-requisite: None

#### **ARTD7004 PERSPECTIVE AND COMPOSITION**

Linear perspective is one of the most basic techniques of Western painting, and it is also a key to understanding the revolutionary changes in Western art history from the Renaissance to the modern era. However, perspective is not limited to linear perspective. Given that all the ancient peoples of the East, including China, had their own methods of expressing depth, perspective is essentially nothing more than methods for creating spatial depth in graphic painting. This course adopts a teaching method that combines the principle of perspective in the classroom and the life drawing practice in the city, trying to allow students to sketch the urban landscape of Macao, run the perspective principles learned in the picture, and support and enrich students' urban sketches through the understanding and application of various perspective principles.

Pre-requisite: None

#### **ARTD7005 SKETCHING FROM NATURE AND ARTISTIC CREATION**

Taking sketching as a way of organizing visual experience and thoughts, this course intends to enhance students' abilities in life drawing with various media under the guidance of a faculty member. Students will learn how to observe nature and life by both the eye and the hand, and to explore various creative strategies through sketching exercises and explorations of different drawing media. Specifically, students will learn how to record and work out ideas for their

individual projects by means of observing and sketching on location. Skills acquired in this course will lay a good foundation for student's future professional career.

Pre-requisite: None

#### **ARTD7006 DIGITAL AND NEW MEDIA ART**

This course consists of ten practice sections that are designed to allow students to develop the technical and conceptual skills necessary to become professional digital media designers and artists. Students will receive hands-on guidance with electronics for making kinetic and interactive digital arts (sensors, motors, lights, microprocessors, and storage devices), and computer programming for the Internet, installations, and presentations. The five critique sections provide opportunities to present their works and to view and critique works by their fellow students.

Pre-requisite: None

#### **ARTD7007 PROFESSIONAL PRACTICE IN ARTS**

A strategic plan of one's career contributes a great deal to the success of an artist. This course helps students to gain insight into the business practices and marketing strategies in the field of arts and prepare them with necessary organizational and business skills to become professional artists. The course structure includes lectures, site visits, and invited speakers from successful professional artists.

Pre-requisite: None

#### **ARTD7008 STUDIO AND PROFESSIONAL PRACTICE IN CHINESE PAINTING I**

As a key component of the first year students majoring in Chinese painting, this course explores creative potentials in different genres of traditional Chinese painting such as landscape and figure painting. Traditional Chinese painting's materiality, making, viewership, and underlying philosophy constitute the major concerns of the course. Students will have the opportunities to copy and rework some exemplary Chinese painting works so as to build solid painting skills and to cultivate a deep understanding of the key features of Chinese art.

Pre-requisite: None

#### **ARTD7009 STUDIO AND PROFESSIONAL PRACTICE IN CHINESE PAINTING II**

As a key component of the second year students majoring in Chinese painting, this course explores creative potentials in modern and contemporary Chinese painting. Experiments embodied in modern and contemporary Chinese paintings such as those by the Lingnan School as well as the more recent new ink paintings are the focus of this course. Students will have the opportunities to experiment with possibilities of Chinese pictorial art different from those in the Western tradition, to sharpen creative painting skills, and to create a collection of artworks for their final painting project.

Pre-requisite: None

#### **ARTD7010 STUDIO AND PROFESSIONAL PRACTICE IN CHINESE PAINTING III**

As a key component of the third year MFA students majoring in Chinese painting, this course helps students develop their final painting projects under the supervision of their thesis committee. In addition, students work with faculty members on the development of their painting projects specifically for the group exhibition context. Students are expected to contribute to exhibition designs and collateral materials, while studying the most recent approaches to curating pictorial arts.

Pre-requisite: None

#### **ARTD7011 STUDIO AND PROFESSIONAL PRACTICE IN WESTERN PAINTING I**

As a key component of the first year students majoring in Western painting, this course explores a variety of methods and innovations as seen in some canonical paintings and pictorial practices in Western art history. It is organized around two major topics: on the one hand, analysis of traditional Western painting materials, techniques, processes, procedures as well as the creation of studio spaces and on the other, development of students' own painting style

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and individual studio practice by creative copying and re-working of works by canonical painters and by studying their working environments.

Pre-requisite: None

#### **ARTD7012 STUDIO AND PROFESSIONAL PRACTICE IN WESTERN PAINTING II**

As a key component of the second year students majoring in Western painting, this course explores a variety of methods and innovations as seen in some contemporary canonical paintings and pictorial practices in the West. It is organized around two major aspects related to contemporary painting: first, a thorough thinking through the phenomenon of the so-called "the death of painting" and the innovative strategies used by contemporary leading artists to revive painting; second, an intensive engagement with these strategies via students' own pictorial practices.

Pre-requisite: None

#### **ARTD7013 STUDIO AND PROFESSIONAL PRACTICE IN WESTERN PAINTING III**

As a key component of the third year MFA students majoring in Western painting, this course helps students develop their final painting projects under the supervision of their thesis committee. In addition, students work with faculty members on development of their painting projects specifically for the group exhibition context. Students are expected to contribute to exhibition designs and collateral materials, while studying the most recent approaches to curating pictorial arts.

Pre-requisite: None

#### **ARTD7014 STUDIO AND PROFESSIONAL PRACTICE IN DIGITAL AND NEW MEDIA I**

This is an introductory postgraduate seminar designed to help students formulate a visually coherent and conceptually unified body of work in digital and new media art through studio practice and research under the guidance of their MFA advisors, as well as critical analysis of their works in progress in a group critique environment by the professor and peers in class. This in-depth analysis helps students understand and reflect upon each other's artistic approach, concepts, mediums, and strategies being used, as well as the uniqueness of his/her work in contemporary cultural context.

Pre-requisite: None

#### **ARTD7015 STUDIO AND PROFESSIONAL PRACTICE IN DIGITAL AND NEW MEDIA II**

This is an intermediate postgraduate seminar designed to help students foster the development of a visually coherent and conceptually unified body of work in digital and new media art through studio practice and research under the guidance of his/her MFA advisors, as well as a critical analysis of their works as they progress in an interdisciplinary group critique environment. In this course, students together with their professor and peers will discuss and critique their works in progress. These in-depth critical explorations help students clarify and articulate his/her artistic concept, spiritual expression, and strategies being employed, as well as the work's significance in contemporary cultural context.

Pre-requisite: None

#### **ARTD7016 STUDIO AND PROFESSIONAL PRACTICE IN DIGITAL AND NEW MEDIA III**

This is an advanced postgraduate seminar designed to help students strengthen a visually coherent and conceptually unified body of work in digital and new media art through studio practice and research under the guidance of his/her MFA advisors, as well as a critical analysis of their works as they progress in a cross-disciplinary group critique environment. In this course, students together with their advisors, peers and guest artists provide constructive criticism and in-depth examination of the students' works in progress, which will help students think outside the box, contextualize their practices in an international contemporary art world, and stimulate students' conceptual and artistic growth and maturity.

Pre-requisite: None

### **ARTD7100 Visual Communication Design History**

This course examines the evolution of visual communication design from its historical foundations to present practices. Students will examine the historical, cultural, design tools, and technological influences that have shaped visual communication design practices, including typography, illustration, advertising, branding, and digital media. Students will analyze significant works, influential designers, and technological developments that have shaped the field. Students will gain an understanding of how design communicates ideas, reflects societal changes, and influences public perception. The curriculum integrates lectures, discussions, and practical projects, connecting historical contexts with current design practices. The course develops comprehensive understanding of visual communication's role in shaping human experience and culture.

Pre-requisite: None

### **ARTD7101 Design Research and Academic Writing**

This course approaches writing as a creative practice, guiding students to articulate their artistic ideas and works with clarity and precision. The course focuses on thesis writing, including argument development, artistic evaluation, project documentation, and analysis of aesthetic and cultural characteristics in artworks. Beyond academic writing, the course develops professional writing competencies including biographical statements, grant proposals, and applications for international exhibitions and awards. Students examine international standards for professional writing through case studies and practical exercises, developing essential writing skills for professional practice.

Pre-requisite: None

### **ARTD7102 Design Projects**

This studio course provides an in-depth exploration of visual communication design principles, techniques, tools, technologies and applications. Students will engage in hands-on projects that integrate typography, imagery, color theory, and layout design to create effective visual messages. The course emphasizes conceptual thinking, problem-solving, and address variety of design challenges for the development of professional experience and design portfolio.

Pre-requisite: None

### **ARTD7103 Creative Photography and Design**

This course examines the integration of creative photography within visual communication design practice. Students develop advanced photographic techniques, conceptual frameworks, and an understanding of the relationship between photography and design. The course encourages experimental approaches, critical analysis, and the application of photographic principles to enhance visual narratives and design projects.

Pre-requisite: None

### **ARTD7104 Digital Art and Artificial Intelligence Technology**

The course "Digital Art and Artificial Intelligence Technology" examines the dynamic intersection of digital art and artificial intelligence (AI) in creative design practice. Participants will explore how AI technologies are transforming digital art practices, enabling new forms of expression and innovation for design. The course covers key areas such as digital art, AI-enabled design, and the ethical implications of using AI in creative processes. Through advanced workshops and critical discussions, students will engage with AI technologies and cutting-edge digital tools, developing approaches to integrate these technologies in to their artistic and design practices.

Pre-requisite: None

### **ARTD7105 Contemporary Design and Critique**

This course examines contemporary design practices through critical analysis and discussion. Students analyze current trends, technologies, and methodologies in visual communication design while developing critical perspectives on their own work and the work of others. The course develops students' capacity for articulating and evaluating design decisions.

Pre-requisite: None

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### **ARTD7106 Transcultural Ways of Life and Design**

Rooted in the intersection of cultural studies, anthropology, sociology, design theory, and globalization studies, this course explores how cultures interact, blend, and influence one another in an interconnected world, and how these interactions shape ways of life, design practices, and material culture. This course especially examines design practices and innovation through Macao's transcultural history, emphasizing Macao's local lifestyle and design development through the cultural synthesis between China and Portugal. Through case studies of transcultural design works, students explore relationships between lifestyle and design that reflect local cosmology and lived experience. The course develops critical perspectives and creativity, focussing on Macao's emerging design practices while preparing students to contribute to future developments in the field.

Pre-requisite: None

### **ARTD7107 Branding Design and Management**

This course examines professional branding design and management through theoretical and practical frameworks. It encompasses brand design, strategic development, market positioning, and management principles. Through integration of marketing theory and practical applications, students develop advanced competencies in branding management and design strategies. Interactive discussions, case studies, design exercises and applied projects, enable students to develop sophisticated approaches to branding design and management, value communication, and market presence development. It encourages collaborative research and design projects from Macao and the Great Bay Area to accentuate students' team skills/social skill and balance between the intellectual and the practical growth.

Pre-requisite: None

### **ARTD7108 Interface and Interaction Design**

This course examines the history, aesthetics, and cultural implications of interface and interaction design through media. It develops students' understanding of interface and interaction design principles across multiple platforms, devices and environments. Through exploration of contemporary trends and emerging technologies, the course develops professional competencies for advanced practice in the field. Student complete a final project that either involves designing and implementing a product for public engagement, or conducting advanced research that extends beyond studio practice.

Pre-requisite: None

### **ARTD7198 Project Report**

For artistic design practice students, the Project Report consist of two components: 1) a formal presentation of a visually coherent and conceptually unified body of professional design work, through solo or group exhibitions, and 2) a formally written academic report including an artistic statement or design concept underlying the exhibited work.

Pre-requisite: None

### **ARTD7998 PROJECT REPORT**

For creative practice students, the Project Report should consist of two elements: 1) a formal presentation of a visually coherent and conceptually unified body of professional quality work in art in the form of solo or group exhibitions or performances; and 2) a formally written academic report that focuses on the artist statement and a theoretical analysis of his/her own body of work in the thesis exhibition. The purpose of the written report is to help students clarify and express their artistic idea in a logical and written format which will in turn enhance the visual communication and expressive power of the creative work.

Pre-requisite: None

### **ARTD8000 ART CANON STUDIES I: WESTERN TRADITIONS**

As the first course in the What is Greatness series of classes in DFA curriculum, it is not intended as an introduction to Western art history, but an attempt to show and tell the students what major artworks have constituted the changing "canons" in Western art tradition and for

what reasons these artworks have been considered “great”. The twelve case studies revolve around twenty artworks and related makers. Focusing on close looking and close reading, this course functions as a basis and a starting point for students’ own creative process. Metaphorically speaking, artworks under discussion construct a “musée imaginaire” of the Pantheon kind, starting from great Western artists and their works of the antiquity, ending with three prestigious East Asian artists actively participating in the contemporary reformulation of the Western art tradition in a postmodern and postcolonial world.

Pre-requisite: None

#### **ARTD8001 ART CANON STUDIES II: CHINESE TRADITIONS**

The goal of the course is two-fold. It rethinks the notions of “canon”, “master-pieces”, “greatness”, “quality”, and “good work”, in an attempt to construct, for practicing artists, an alternative canon of artworks made in both traditional and recent Chinese art. Meanwhile, the course explores an overdetermined approach to artistic creation by means of close looking, close reading, and “close living”, namely, by a practice of paying serious, deep, and open-minded attention to a single thing: one artwork, one image, one object, one site, along with its surrounding ecology.

Pre-requisite: ART CANON STUDIES I: WESTERN TRADITIONS

#### **ARTD8002 TRANSCULTURAL ARTS STUDIES**

Unlike the first two courses that treat artistic masterpieces in the West and China separately, “Transcultural Art Studies”, the third course in the What is Greatness series in DFA curriculum, is dedicated to break down the barriers between art traditions. Focusing on the artworks of four “Great Hybrid Periods”, namely, Han and Tang dynasties, Song and Yuan dynasties, Ming and Qing dynasties, and modern times in China, corresponding to the Late Antiquity, Middle Ages and Renaissance, Enlightenment, and Early Modern periods in the West, the course aims to reveal the profound mutual influence and interaction between traditions, such as contributions of the West to Chinese art and China’s contributions to the world art. It tells a transcultural art story from a global perspective, the beginning point of which is art in China (including Macau).

Pre-requisite: None

#### **ARTD8003 AESTHETICS AND ART RESEARCH METHODS**

This graduate seminar requires student participants to engage in some intensive reading and writing activities. The major topics for discussion include twelve groups of key concepts — eight related to modern/postmodern aesthetics (whenever possible in comparison with relevant traditional Chinese “aesthetic” concepts), while five to artistic methods. It is hoped that the course will help students not only have an in-depth comprehension of trends and changes in aesthetics and art research from the Enlightenment up to the present time, but also cultivate a certain degree of capacities to materialize theoretic conception in actual artistic practices.

Pre-requisite: None

#### **ARTD8004 GREAT MOMENTS OF HUMANITIES AND SCIENCE**

This course introduces Doctor of Fine Arts students to the most significant and inspiring moments of the humanities and sciences disciplines. The course is divided into 5 parts that cover the major disciplines in humanities and science, including History, Philosophy, Literature, Physical and Nature sciences, and Life and Social sciences. Excerpts from selected written works provide the course backbone and a cohesive narrative describing the journey humanity has made through each discipline. This will be supplemented with multi-media learning materials and in-class demonstrations.

Pre-requisite: None

#### **ARTD8005 INTERDISCIPLINARY SEMINAR: WHAT IS CREATION?**

This is the first course in the Creation series of classes in DFA curriculum. It intends to lay a solid foundation for art practice classes in the series and to inspire students’ desire to create. Adopting the form of team-teaching, it exposes students to multiple perspectives and knowledge on creation and creativity across several different domains. The course consists of

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several components, including lectures, studio projects, and creative art writing. Fundamental questions will be raised during the course of the semester, such as the complex relations between creation and human nature, the unique role artistic creation plays for humans in making sense of the world, the subtle equilibrium between creation and destruction, and the inventive tension between image making and writing.

Pre-requisite: None

#### **ARTD8006 ARTISTIC EXPERIMENTS I: WESTERN MEDIA**

This course explores a variety of innovations in painting practice. It is organized around three major topics: painting materials and techniques, painting processes and procedures, and the perception of painting; namely, painting's materiality, making, and viewership. Encouraging students to experiment with new possibilities of pictorial art, the course aims to help them build painting skills, cultivate a degree of ability in grappling with the unnoticed and the ignored in the human psyche, and ultimately, realize an inspiring self-discovery.

Pre-requisite: None

#### **ARTD8007 ARTISTIC EXPERIMENTS II: CHINESE MEDIA**

This course explores innovative potentials in traditional and new Chinese pictorial media. Chinese painting's materiality, making, viewership, and underlying philosophy constitute the major concerns of the course. Students will have the opportunities to experiment with possibilities of pictorial art different from those in the Western tradition, to build creative painting skills, and to cultivate a deep critical understanding of one of the key features of Chinese art: pursuing the Dao.

Pre-requisite: None

#### **ARTD8008 ARTISTIC EXPERIMENTS III: DIGITAL MEDIA**

This course is designed to help doctoral students articulate their digital art and new media art projects through studio practice and critical analysis of the works as they progress in preparation for their exhibition and thesis. Students are encouraged to pursue a focused personal vision and creative activities through a combination of studio practice and group critique of the students' works as well as their artist statement and artistic concept.

Pre-requisite: None

#### **ARTD8009 ART EXHIBITION AND CULTURAL MANAGEMENT**

Focusing on contemporary art ecology and cultural heritage resources in the Greater Bay Area, this course explores how varied art management systems and curatorial practices have been working. It is organized around three major themes: modern exhibition systems, classification and management practices of art institutions, and art curation and research. The goal of the course is to develop students' ability to understand current art institutional environments and research resources, and to correlate artistic creation and curatorial practices.

Pre-requisite: None

#### **ARTD8100 Design Seminars**

This course explores significant design theories, movements, and cultural contexts from historical and contemporary perspectives. Through critical analysis, it explores design movements and their socio-political influence on aesthetic perceptions and daily life. Students engage in advanced research, analyzing artifacts, texts, and visual culture while developing original scholarly contributions to the field. This course prepares graduates for careers in academia, research, and curatorial practice, emphasizing design's role in societal and cultural transformation.

It invites all the potential doctor advisers, professional designers and international visiting professors from East and West to present their research interest and activities.

Pre-requisite: None

#### **ARTD8101 Academic Dissemination and Project Communication**

This seminar develops graduate students' scholarly writing and design inquiry competencies

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within design research contexts. Students examine academic conventions, contemporary approaches, and methodological frameworks in scholarly writing and creative practice, focusing on research paper structures, comparative design analysis, argument development and project communication. Through critical discourse, peer evaluation, and structured exercises, students refine their academic voice, enhance analytical clarity, and develop sophisticated narratives in design projects for scholarly and professional audiences. This seminar provides essential foundations for developing publishable research and projects in design-related disciplines.

Pre-requisite: None

### **ARTD8102 Visual Design: Theories and Methods**

This course examines the foundations of visual design, its theories, principles, methods, and applications for addressing visual communication design challenges. It comprises five weeks of theoretical foundations, five weeks of advanced interactive workshops, and five weeks of collaborative design projects, enabling students to integrate theoretical knowledge and practical application. Students will develop advanced visual design competencies and methodological frameworks for problem identification and innovative solution generation, advancing the field of visual communication.

Pre-requisite: None

### **ARTD8103 Design Projects**

This course helps students to gain professional knowledge in variety of topics in Visual Communication Design, such as typography, composition, branding, strategy, and design management and conduct design practice. Especially, this course explores how brand design, strategy planning, and design management produce innovative, effective and meaningful impact to the long-term development of organizations. Participants will learn the fundamental philosophy, principles, operative technique and assessment methods of these three aspects by case studies and in-depth research and industrial practicum. By the end of the course, participants will create innovative brand design, strategic plans and design management system that aligns with an organization's vision, mission, and market positioning to deliver products, services and marketing solutions that address customer needs and contribute to long-term success.

Pre-requisite: None

### **ARTD8104 Local and Global Cultural Industries**

This course examines the cultural industries as a key component of economic, social, and political activity in the context of globalization. It explores the production, distribution, and consumption of cultural goods and services, including design, media, art, music, film, publishing, and digital content. The course emphasizes the connection and tension between local cultural practices and global market forces, as well as the role of cultural industries in shaping identities, economies, and power dynamics. In practice, based on above knowledge, this course also examines student's culture awareness, design capacities to exam local culture elements and produce design and products suitable for Macao and the Great Bay Area.

Pre-requisite: None

### **ARTD8105 Advanced Topics in Digital Art**

This course examines emerging digital art technologies and infrastructures through research and design practice. Students explore advanced digital techniques including 3D modelling, virtual reality, interactive design, immersive environments, and urban media interventions, leading to independent research. Through the combination of design projects, theoretical discussions, and critiques, students examine contemporary issues including of technology's role in design, digital media's impact on traditional practices, and the evolution of digital culture.

Pre-requisite: None

### **ARTD8106 Advanced Topics in Photography and Video**

The seminar examines advanced research and practice in photography and video media. Students analyze contemporary imaging technologies while exploring theoretical frameworks

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and developing innovative projects that contribute to the field. Through original creative works and research projects, students address contemporary issues in photography and video practice. The seminar emphasizes experimental approaches to enhance their creative and technical skills in photography, video and visual communication design.

Pre-requisite: None

#### **ARTD8107 Artificial Intelligence and New Technologies for Design**

This course examines artificial intelligence (AI) and emerging technologies in the field of design practice and research. Students will explore how AI and advanced technologies can be integrated into the design process, enhancing creativity, efficiency, and innovation. The course covers a range of AI topics, including machine learning, generative design, automation, analyzing their impact on design practices and the design industry. The course will equip students with advanced AI knowledge and techniques to conduct research and create designs, enabling them to leverage future innovations effectively and contribute new knowledge and practice for the design industry and academia. It also conducts critical review and reflection on its ethical and social implications.

Pre-requisite: None

#### **ARTD8108 Technological Revolution and Design Innovation Workshop**

This workshop examines the dynamic interplay between technological advancements and design innovation across multiple industries. Students explore the cutting-edge techniques such as digital media, 3D printing, and AI, applying the emerging methodologies to develop new approaches in form and media. Through case studies, critical discussions, and collaborative projects, students engage with contemporary challenges in the field and develop innovative solutions. The workshop emphasises experimental approaches to emerging technologies, enabling students to explore new possibilities in design practice and to better navigate the evolving landscape of design.

Pre-requisite: None

#### **ARTD8109 Transcultural Aesthetics and Design**

This seminar examines innovative design practices in transcultural and global contexts. Students analyse intersections of design, culture, and globalization, exploring how design theory and practice are shaped by Eastern-Western cultural interactions. Through case studies, and critical discourse, the course investigates design's role in cultural exchange, identity formation, and social transformation. Particular emphasis is placed on emerging design practices in Macao and the role of technology in facilitating transcultural collaboration.

Pre-requisite: None

#### **ARTD8110 Design Practices: Entrepreneurship and Professional Management**

This course explores the intersection of design, entrepreneurship, and professional management. Students will learn how to apply design to entrepreneurial ventures, manage creative teams, and develop sustainable business models. The course emphasizes practical skills such as business planning, financial management, marketing, and leadership within the context of design-driven enterprises.

Pre-requisite: None

#### **ARTD8199 Doctoral Thesis**

The Doctor of Design in Visual Communication Design programme emphasizes innovation and creation through advanced design practice and applied research.

The thesis consists of three parts:

First, under faculty supervision, students conduct innovative research addressing contemporary social developments and visual communication design industry needs, producing a coherent body of conceptually unified design works.

Second, students curate a solo exhibition of their design works.

Third, students develop a written thesis analyzing the theoretical and innovative aspects of their research and design works. This scholarly document articulates their design concepts and

methodologies in a systematic framework, demonstrating the intellectual rigor of their practice.\nPre-requisite: None

### **ARTD8999 DOCTORAL THESIS**

In order to promote interdisciplinary approaches to artistic creation, we require the final doctoral thesis to be co-supervised and accessed by two faculty members of the University of Macau, a practicing artist and a theory-oriented faculty member in the programme; or alternatively, a practicing artist in the programme and a faculty member from any department at the university whose expertise is appropriately related to the thesis. The thesis consists of three parts: First, closely tutored by instructors, students create a visually coherent and conceptually unified body of artworks in media of their choice in reference to the “great art canon” they themselves have formulated in previous years of doctoral studies. Second, toward the end of year 4, students are required to curate a solo exhibition of these works. Third, to go with the exhibition, students should compose a series of essays, verbally commenting the works and the curatorial strategies.

Pre-requisite: None

### **CCHC7000 INTRODUCTION OF CHINESE HISTORY AND CULTURE**

The course is the foundational course for the programme. It introduces students the existing literature on studying Chinese history and culture as well as the major theories and methodologies for the subject, allowing them to have the basic knowledge of the subject, which shall guide them to study the subject with a sound foundation and an appropriate approach and from an advanced starting point.

Pre-requisite: None

### **CCHC7001 SEMINAR ON CHINESE CLASSICS**

The course, via carefully studying the existing Chinese classics including, e.g., “Four Books and Five Classics,” “Twenty Four Histories,” writings by Lao Zi and Zhuang Zi, “Yangming’s Philosophy of Mind,” etc., shall cultivate students’ capability of reading and understanding Chinese classical writings, help them accurately grasp the core values of Chinese traditional culture, and guide them along with a critical and cautious thinking line and other related historical materials to analyze and decode the first hand historical texts, truly learning Chinese history and traditional culture by solid historical evidence and deconstructing texts.

Pre-requisite: None

### **CCHC7002 ANCIENT CHINESE INTELLECTUAL HISTORY**

This course is to trace the development of Chinese thoughts and intellectual activities, from the ancient time to the premodern time with a focus on the periods of Tang, Song and Ming, and to show the evolving ideas and diverging theories of the core Chinese thoughts and philosophies along the change of social and political circumstance. It will try to find the lasting fundamental elements of traditional Chinese thoughts, no matter how their discourses and expressions on surface differed, as well as their advancement and continuity.

Pre-requisite: None

### **CCHC7003 THE INTANGIBLE AND SPIRITUAL CIVILIZATION OF TRADITIONAL CHINA**

Focusing on the intangible civilization and spiritual civilization of traditional China, the course will help students learn about all kinds of traditional Chinese intangible arts and culture as well as artistic and cultural creativities, such as literature, music, dance, drama, painting, craftwork, folk custom, etc., to broadly and deeply grasp the spiritual and moral dimension and wisdom of China, various historical situations and delicate and emotional aspects of the complicated human experiences displayed and passed on by Chinese intangible civilization, which have been hardly expressed by official documents.

Pre-requisite: None

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**CCHC7004 THE MAJOR TRANSFORMATIONS IN CHINESE HISTORY**

The course will choose the major topics in Chinese history, such as the First Emperor Qin who unified China, the restoration and decline of Ming and Qing, etc., to describe major changes in Chinese institutions, traditions, and society during the different historical phases, the main phenomena and features of Chinese history, and the historical legacies, so that the students could learn about the main issues and direction of Chinese history, the causes for revolutions and reforms, namely where China is from and where China is moving toward, as well as the historical mission of the Chinese people nowadays.

Pre-requisite: None

**CCHC7005 CHINESE LITERATURE AND CULTURE IN MODERN TRANSITION**

The course will portray the transition of Chinese literature and culture in modern time, and explain the causes to such a change. It will examine the profound impact of the literary and cultural transformation on China, with a focus on the major intellectual debates, advancement and divergence, to find their relationship with the political and social development.

Pre-requisite: None

**CCHC7006 MACAO IN CHINESE HISTORY**

The course will trace the activities of Western missionaries and businessmen in Macao and their impact on China via Macao since the sixteenth century. It will measure the historical implications and effects of Sino-Western interactions through Macao during the same period and investigate the role of Macao in modern Chinese history, especially during the wartimes and revolutionary times, as well as the influence the major historical events of the mainland brought to Macao.

Pre-requisite: None

**CCHC7007 PEDAGOGICAL SEMINAR: CURRICULAR DESIGN ON TEACHING CHINESE HISTORY, CULTURE AND LANGUAGE**

This is a pedagogical seminar, focusing on the curricular design and the method of teaching Chinese history, culture or language for the students of elementary and high schools. It will use class discussions and presentations to analyze and solve the most common problems in teaching the subject, technically, culturally and socially, and train and guide students to make curricular design for the course of "Chinese History," "Chinese Culture" or "Chinese language," and strengthen their teaching capability and skill through practice, making a well-designed, very practical and well-suited curricular design for the courses.

Pre-requisite: None

**CCHC7008 TOPICS IN CHINESE LANGUAGE**

The course will teach and train students to accurately and skillfully read classical Chinese language through practice, strengthen their writing capability with modern Chinese language, focusing on correcting typical errors that often occurred in using Chinese language, in terms of grammar, punctuation, writing styles, way of expression, etc. It will also introduce Xu Shen's study on Chinese characters and teach students about how to see the social and cultural and implications deeply contained in linguistic expressions, as well as the subtlety, depth, richness and the enormous power and effect of Chinese language as the carrier of a culture.

Pre-requisite: None

**CCHC7009 CHINESE HISTORY REFLECTED BY ARTS AND LITERATURE**

The course will use ancient and modern arts and literature to teach students Chinese history, training them to read historical messages and hidden truths from images, artifacts and unofficial writings and to see the emotional and delicate aspects of human experiences as well as the historical context of ancient Chinese arts and literature.

Pre-requisite: None

**CCHC7991 PROJECT REPORT (for intake students after 2022/2023)**

Students, guided and supervised by individual instructor on a person-to-person basis, are

required to independently and individually complete a research project on Chinese history and culture as well as the pedagogy for teaching that subject with an in-depth report. They shall apply the knowledge and the research methods of Chinese history and culture they learned to enhancing and strengthening their capability of doing research project and writing academic report, as well as designing courses and pedagogy for teaching the subject. The main assignment and final product of this course is a project report on one of the learned subjects.  
Pre-requisite: None

### **CHLL1000 大學語文 UNIVERSITY CHINESE**

本科是一門基礎課，供全校各專業同學修讀。其內容包括古今中外有代表性的文學作品，包括詩歌、散文和小說。通過教學的多個環節，使同學增加對文學作品的興趣，提高閱讀和分析的能力，進而提高語文的表達能力。  
先修科目: 沒有

### **CHLL1001 現代漢語 MODERN CHINESE LANGUAGE**

本課程是漢語言文學專業的必修基礎課。通過實例分析、小組討論報告等教與學的手段，使學生能夠系統掌握現代漢語的文字、語音、詞彙和語法等基本理論和基本知識，學會語音、詞彙和語法分析的基本技能，培養和提高學生分析、運用語音、詞彙和語法知識的能力。  
先修科目: 沒有

### **CHLL1002 漢語語言學概論 INTRODUCTION TO CHINESE LINGUISTICS**

啟發學生觀察和討論各種語言、方言現象，將日常語言現象與語言的基本概念、性質、結構、演變規律、以及其他社會現象聯繫起來，培養學生對語言現象的敏感度，以及自覺將語言學理論運用在語言分析、語言運用、語言教學、語言規劃等方面。學生通過實例分析，掌握語言學的基本理論和知識，對日常語言現象具備正確、科學的態度。  
先修科目: 沒有

### **CHLL1003 中國當代文學 CONTEMPORARY CHINESE LITERATURE**

本課程主要探討二十世紀下半葉以來中國文學之歷史發展的規律與成就，並旁及其與古典文學、外國文學和現代文學之關係。課程的重點內容是對當代文學重要作家的代表作品進行歷史和美學的解讀，並對朦朧詩派、先鋒派等重要文學思潮和流派，對山藥蛋派、探求者、他們詩社等重要文學社團，將結合作品進行重點介紹，且以互動式、啟發式教育，激發同學的獨立思考與課堂討論，從而達到化課堂所學為自身學識的教學目的。  
先修科目: 沒有

### **CHLL1004 中國現代文學 MODERN CHINESE LITERATURE**

本課程主要探討二十世紀上半葉中國文學之歷史發展的規律與成就，並旁及其與古典文學、外國文學之關係。課程的重點內容是對現代文學重要作家的代表作品進行歷史和美學的解讀，並對新人文主義、新感覺派、九葉詩派等重要文學思潮和流派，對文學研究會、創造社、新月社等重要文學社團，將結合作品進行重點介紹，且以互動式、啟發式教育，激發同學的獨立思考與課堂討論，從而達到化課堂所學為自身學識的教學目的。  
先修科目: 沒有

### **CHLL1005 粵語與粵文化 CANTONESE LANGUAGE AND CULTURE**

本課程通過方言調查、實地考察、觀賞表演、分析討論等方式，引導學生探討粵語與粵文化各個方面的密切關係，諸如宗教信仰、社會風俗、戲曲藝術、飲食文化及中西語言文化的融合等。  
先修科目: 沒有

### **CHLL1006 中國古典詩歌 CLASSICAL CHINESE POETRY**

本課程引導學生閱讀、分析、闡釋先秦至清代的詩、詞、曲作品，通過討論、報告、撰寫論文等方式，啟發學生分析詩歌的語言、意象、韻律、格調、風格、結構、詩體、主題、題材等，

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探討古代詩歌的發展演變歷程及其與社會歷史背景的關係，並練習創作舊體詩詞的格律和技巧。  
先修科目：沒有

### **CHLL1007 中國古典小說 CLASSICAL CHINESE FICTION**

本課程引導學生閱讀、分析、闡釋中國古典小說代表作品，通過討論、報告、撰寫論文等方式，啟發學生分析小說的文本、語言風格、主題、題材類型、敘事結構、人物塑造等，探討古典小說的發展演變及其與社會歷史背景的關係。

先修科目：沒有

### **CHLL1008 中國歷史文獻選讀 SELECTED READINGS IN CHINESE HISTORIOGRAPHY**

本課程選讀歷代文獻篇章，從先秦《尚書》至近代《盛世危言》，學習當中主旨以及語言文辭運用，增進文史知識，提升人文素質，有利自身品格修養。

先修科目：沒有

### **CHLL1009 文學創作 CREATIVE WRITING**

本課程旨在透過講課、習作、小組討論等，增強同學的文學創作能力。課程內容包括：1. 訓練同學掌握規範的白話文、減少病句和粵方言痕跡、應用文寫作、詞語搭配、標點符號、使用字典詞典等；2. 講解文學創作的要素，如觀察、構思、想像、表達等；3. 引導同學掌握小說、散文、詩等各類文體的寫作。

先修科目：沒有

### **CHLL1010 通俗文學與文化 POPULAR LITERATURE AND CULTURE**

本課程以現當代民間文學和通俗文學文本為研究對象，運用多媒體教學、社會調查、課堂討論等手段，引導同學探究民間文學和通俗文學中的題材種類，表達藝術手法，共同特徵與差異，以及流行文化的思維表達，進而追蹤當代大眾文學的發展變遷、文化底蘊及其所體現的社會大眾意識。本課程將聯係中國現當代通俗文學與民間文學的實際，從民俗學乃至文化人類學的理論視野探討民俗文化當代發展的規律，並指導學生對澳門民間文學進行採集與研究。

先修科目：沒有

### **CHLL1011 實用中文 PRACTICAL CHINESE**

本課程的目標是訓練同學有效地應用中文到日常生活和工作中去，培養和提高同學的中文應用能力和水平，無論將來從事什麼行業，都可運用中文為其溝通和發揮能力的工具。課程將採用講課、討論和練習的方式授課。講授的內容包括公函、通告與啟事、計劃書和私人書信等。

先修科目：沒有

### **CHLL1012 對外漢語教學 I CHINESE FOR NON-NATIVE SPEAKERS I**

In this course we learn Mandarin Chinese at a beginning level. It aims at students who have had no prior knowledge of the Chinese language. In the class, students work on massive oral exercises in order to build up and improve their Chinese pronunciation skills. The course helps students better understand Chinese by introducing them to fundamentals of Chinese syntax and morphology. The course also introduces various aspects of Chinese culture in order to reduce the cultural obstacles to Chinese language learning.

Pre-requisite: None

### **CHLL1013 對外漢語 CHINESE AS A SECOND LANGUAGE**

This course is designed for students who would like to learn Chinese as a foreign language, as well as those whose mother tongue/language is neither Mandarin nor any other Chinese dialect. It aims to develop oral skills and vocabulary knowledge in preparation for students to conduct day-to-day conversations with confidence. Situational dialogues, pronunciation drills, and comprehension exercises will strengthen students' competence in conversational skills. This course will allow students to gain access to the rich opportunities available to Chinese speakers.

Pre-requisite: CHLL1012

**CHLL2000 古代漢語 I CLASSICAL CHINESE LANGUAGE I**

本課程側重古代漢語知識通論，結合古代漢語各類材料，講授理論知識，分析語料實例。學生通過研讀各種類型的古代漢語材料，了解古代漢語的語言面貌，重點掌握古代漢語文字、詞法與語法內容，在此基礎上系統掌握古代漢語領域相關知識。學生能將這些古漢語知識運用在實際的古文閱讀和理解上，對於古籍和歷史文獻有一定的閱讀和分析能力。

先修科目：沒有

**CHLL2001 中國古典文學：先秦至唐五代  
CLASSICAL CHINESE LITERATURE: PRE-QIN TO TANG AND FIVE DYNASTIES**

本課程引導學生閱讀、分析、闡釋先秦至唐五代的古典文學代表作品，通過討論、報告、撰寫論文等方式，啟發學生探討古典文學發展的重要時期和階段，各類文體風格，主要作家和流派，文學發展與政治、宗教、思想、文化的關係等。本課程旨在使學生瞭解中國古典文學的特質和發展歷程，並培養其獨立欣賞、分析、批評古典文學作品的能力。

先修科目：沒有

**CHLL2002 古代漢語 II CLASSICAL CHINESE LANGUAGE II**

本課程側重古代漢語知識專論，結合古代漢語各類材料，講授理論知識，分析語料實例。學生通過研讀各種類型的古代漢語材料，了解古代漢語的語言面貌，重點掌握漢語音韻知識、音韻學學術理念以及基本術語，並在此基礎上系聯古今音韻現象，了解音韻發展脈絡。學生能將這些古漢語知識運用在實際的古文閱讀和理解上，對於古籍和歷史文獻有進一步的閱讀和分析能力。

先修科目：CHLL2000

**CHLL2003 中國古典文學：宋代至清代  
CLASSICAL CHINESE LITERATURE: SONG TO QING DYNASTIES**

本課程引導學生閱讀、分析、闡釋宋代至清代的古典文學代表作品，通過討論、報告、撰寫論文等方式，啟發學生探討古典文學發展的重要時期和階段，各類文體風格，主要作家和流派，文學發展與政治、宗教、思想、文化的關係等。本課程旨在使學生瞭解中國古典文學的特質和發展歷程，並培養其獨立欣賞、分析、批評古典文學作品的能力。

先修科目：CHLL2001

**CHLL2004 中國現當代作家專題  
TOPICS IN MODERN AND CONTEMPORARY CHINESE WRITERS**

在系統、深入地閱讀漢語新文學作品並瞭解中國現當代文學史的基礎上，對漢語新文學發展過程中的若干問題作較為深入、專業的分析，解讀，重點解剖在中國現當代歷史上產生過重大影響或出現過較明顯困擾的文學現象，並從文學、美學、社會學、文學心理學等多個角度對這些文學現象進行理論分析，以提高同學的文學批評和理論判斷能力，為進一步介入漢語新文學的研究作準備。此課程將讓學生分組自選課題進行學術討論練習，教師進行指導並對分組交流進行評分。

先修科目：CHLL1003或CHLL1004

**CHLL2005 世界華文文學 WORLD CHINESE LITERATURE**

世界各地的華人在各自不同的生活環境中，適應著不同時代和歷史的要求，創作了大量與祖國文學有著不同特色的文學作品。這些作品從不同角度，側面反映了不同地域華人的生活與人生追求，對這些文學創作的研究，有助於學生對各地華人社會的瞭解。通過對不同地域的華文文學的歷史與現狀描述，重要的作家作品研究，以及不同文學流派的介紹等，使學生對各地的華文文學有整體的瞭解。本課程還將引導學生自主地研究和討論華文文學的一些重要議題。

先修科目：CHLL1003或CHLL1004

## **CHLL2006 中國古典散文 CLASSICAL CHINESE PROSE**

本課程引導學生閱讀、分析、闡釋先秦至清代的優秀散文作品，通過討論、報告、撰寫論文等方式，啟發學生分析古典散文在體裁、題材、表現技巧、語言風格等方面的特點和發展演變，並詮釋其歷史文化背景。本課程旨在培養學生獨立欣賞、分析、批評古典散文的能力，並提高其寫作的水平。

先修科目: 沒有

## **CHLL2007 先秦諸子閱讀 READINGS IN PRE-QIN CLASSICS**

本課程選擇閱讀一至二部先秦諸子的經典著作，通過討論、報告、撰寫論文等方式，啟發學生分析經典著作的思想內涵和語言形式，探討其對中國思想文化傳統的形成和發展的影響，並介紹新近出土的先秦諸子資料和學術研究動態。本課程旨在使學生瞭解作為中國思想文化源頭和主流的先秦諸子著作和思想，深化對文學和文化傳統的認識，並培養其批評性思考和分析研究的能力。

先修科目: 沒有

## **CHLL2008 現代漢語語法語用學 MODERN CHINESE GRAMMAR AND PRAGMATICS**

本課程是漢語言文學專業的必修基礎課。通過實例分析、小組討論報告等教與學的手段，學生能系統地掌握現代漢語的語法學、語用學的基本理論和基本知識，學會語法、修辭、語用的基本技能，培養和提高學生分析語法和判斷語法錯誤以及修正語法錯誤的能力，增強語言的表達效果。

先修科目: CHLL1001或CHLL1002

## **CHLL2009 漢語詞彙學專題 SPECIAL TOPICS IN CHINESE LEXICON**

該課程專門為漢語言文學專業或有志於系統學習漢語詞彙知識的本科生開設。通過該課程的學習，學生可了解漢語詞彙的基本概念和構詞原則，並運用這些知識分析漢語乃至其他語言的詞彙，進而在生活和學習中更加準確地運用漢語詞彙。

先修科目: CHLL1001 或 CHLL1002

## **CHLL2010 唐宋詩詞 POETRY OF TANG-SONG PERIOD**

本課程引導學生閱讀、分析、闡釋唐宋詩詞的優秀作品和相關理論批評著作，通過討論、報告、撰寫論文等方式，啟發學生探討唐宋時期的主要詩詞作家、重要發展階段、詩詞體式的格律和表現特點等，並練習創作舊體詩詞的格律和技巧。

先修科目: 沒有

## **CHLL2011 現當代文學經典作品閱讀**

### **READINGS IN MODERN AND CONTEMPORARY WORKS**

中國現代文學發展的歷史雖然只有短短幾十年，但值得選讀的作品實在不少。這門課引導學生重點閱讀魯迅、郭沫若、李金發、戴望舒、錢鍾書、張愛玲、穆旦、廢名、汪曾祺、王小波、北島等人的富有經典意義的作品，並通過課堂上分析和討論這些有代表性的作品，培養和提高學生獨立思考和分析文學作品的能力。本課程會聯係古今中外文學現象，發動學生討論經典的定義和意義。

先修科目: 沒有

## **CHLL2012 港澳語言研究**

### **LANGUAGES AND DIALECTS SPOKEN IN HONG KONG AND MACAO**

課程旨在讓學生充分認識和瞭解港澳豐富多彩的語言現象及其產生的政治、經濟和文化的原因，並以語用學的理論從不同角度分析其現象及規律，引導學生對港澳語言研究的興趣，並提高學生在社會實踐中正確運用語言的能力。

先修科目: 沒有



**CHLL2013 圖書編輯基礎 BOOK EDITING KNOWLEDGE AND SKILL**

該課程教學目的使學生較全面瞭解、掌握編輯學的基本原理和編輯技能，對現代編輯，尤其是港澳地區中文圖書編輯的功能和特點有基本的認識。通過教學逐步提高學生組織、整理文字和圖像資料的能力，初步學會運用知識產權的基本概念處理出版中的各種問題。

先修科目：沒有

**CHLL3000 語言比較 LANGUAGE COMPARISON**

本課程介紹語言比較和分析的一般原則和常用方法，重點放在兩種漢語方言或者漢語跟其他語言的比較分析上，讓學生對自己的母語或某種外語從語言結構上有清晰的認識，並培養分析語言的能力，使學生對不同語言或者不同方言之間異同規律的專業敏感及對其對應規律的認識。學生將學會對粵語和普通話的比較和分析，同時認識粵語和普通話的相同點和不同點。

先修科目：沒有

**CHLL3001 文學理論及批評 LITERARY THEORY AND CRITICISM**

介紹重要文學理論流派如形式主義、結構主義、符號學、後結構主義、女性主義、後殖民主義等，同時配套介紹中西方文學理論批評範圍內的重要論著和相關作品，演示分別運用或綜合運用傳記批評、印象批評、形式主義文評、新批評、結構主義與符號學、後結構主義、女性主義、後殖民主義等中西方文學批評的模式與方法分析具體作品，以提高同學將文學理論運用於批評實踐的能力，並在積極參與課堂討論的前提下，深化與細化對文學理論和批評方法的掌握。

先修科目：沒有

**CHLL3002 傳統語文學 CHINESE PHILOLOGY**

本課程旨在讓學生進一步加強傳統語文學的基本理論與基礎知識。通過深化訓練，提高學生閱讀和研究古代文獻的興趣與能力。教學手段包括古文分析、傳統材料釋讀、小組研習等多種方法。

先修科目：CHLL2000或CHLL2002

**CHLL3003 語言學名著選讀 READINGS OF CHINESE LINGUISTICS WORK**

選擇有代表性的語言學名著，學生進行分組研讀、討論、報告，通過對一些有代表性的漢語方言和外語的分析文章的研讀，提高學生分析語言、分析方言的能力；同時了解和認識一些有代表性的語言理論和流派。

先修科目：CHLL1001 或 CHLL1002

**CHLL3004 文獻學 BIBLIOGRAPHY**

本課程介紹傳統和現代文獻學，包括傳統的目錄學、版本學、校勘學及現代的文獻分類和檢索技術，通過討論、報告和實際練習，使學生掌握傳統文獻的傳播、分類、收藏及整理等基礎知識，瞭解各學科的重要典籍，認識各種中文工具書的使用方法及各類電子資源的檢索利用。本課程旨在使學生掌握和利用文獻資訊資源，瞭解本專業和相關學科的發展動向，並培養學術研究的能力。

先修科目：沒有

**CHLL3005 華南文學與文化 SOUTH CHINA LITERATURE AND CULTURE**

嶺南（華南地區）是指南嶺山脈以南的地區，古代是指廣東、廣西及海南全境，以及湖南及江西等省的部分地區。現在則為了方便起見，通常把嶺南作為廣東的代稱。

嶺南文化是中國地域文化的獨特組成部分，以農業文化與海洋文化為源頭，在發展過程中，不斷吸收和融匯中原文化及海外文化，因而逐漸形成包容、開放、創新、務實的特點。嶺南學術獨樹一幟，嶺南文學名家輩出，嶺南畫派名揚國外，粵劇粵曲成就非凡，嶺南民俗及嶺南飲食，異於北方，富有地方特色。而澳門與嶺南文化關係密切，了解嶺南文化的發展，亦有助認識澳門本土歷史文化。

先修科目：沒有

### **CHLL3006 漢語社會語言學 CHINESE SOCIOLINGUISTICS**

社會語言學是一門與多學科交叉的語言科學。本課程通過實例分析、小組討論報告等教與學手段，使學生對語言學有更廣泛的認識，從語言社團的角度認識和研究語言的發展和演變，特別是語言與社會的關係、語言與區域文化的關係，認識澳門社會對於澳門語言的影響，同時讓學生掌握社會語言學的基本研究方法。

先修科目: CHLL1001 或 CHLL1002

### **CHLL3007 漢語方言學 CHINESE DIALECTOLOGY**

課程通過實例分析、小組討論報告(各人運用自己的方言)等教與學的手段，讓學生瞭解漢語各種方言的語音、詞匯及語法的特點，認識漢語各方言之間的異同以及形成異同的歷史的和區域社會的原因，學會方言調查和方言研究的基本方法，進而培養學生運用現代語言學理論分析和研究漢語方言事實的能力。

先修科目: 沒有

### **CHLL3008 中國古典戲曲 CLASSICAL CHINESE DRAMA**

本課程引導學生閱讀、分析、闡釋古典戲曲的代表作品，通過討論、報告、撰寫論文等方式，啟發學生探討古典戲曲的起源、形式與發展。本課程旨在使學生瞭解古典戲曲作品的特質、類別、表演形式和發展歷程，並培養學生獨立欣賞、分析、批評戲曲作品的能力。

先修科目: 沒有

### **CHLL3009 漢語訓詁學與語義學 CHINESE ETYMOLOGY AND SEMANTICS**

課程旨在讓學生系統掌握傳統訓詁學和現代語義學的基礎知識，以期貫通古今，洋為中用。本課程還要培養學生閱讀和研究古代文獻的興趣，鍛煉學生運用現代語義學理論分析漢語古今字義、詞義和句義的能力。

先修科目: 沒有

### **CHLL3010 當代實用文體**

#### **CONTEMPORARY PRACTICAL AND PRAGMATIC WRITING**

本課程以實用的題材為具體的教學內容，指導同學掌握各類型應用文的寫作特點，講授基礎的寫作知識，透過講解及學習，培養同學的寫作興趣及提升寫作能力。講授的不僅是私人書信或求職自薦的書寫，也有喜慶宴會的柬帖及喪務用的訃聞、哀啓等，甚至業務的公函、公啓、意向書、會議錄、報告等，以及與生活息息相關的各類法律文件，如契約、章則、規程等等。

先修科目: 沒有

### **CHLL3011 澳門文學與文化專題**

#### **SPECIAL TOPICS IN LITERATURE AND CULTURE OF MACAO**

該課程以介紹、考察和分析澳門歷史與文學專題為主要內容。專題主要包括：澳門文學、澳門城市發展和歷史建築、澳門宗教與信仰、澳門社會風俗、澳門飲食文化等專題。在課堂教學中重點引導學生認識澳門中西文化併存、融合和發展的原因及其特色，並通過教學和實地考察，培養學生收集、分析文學、歷史文化資料的能力，加深對澳門文化、文學的認識。

先修科目: 沒有

### **CHLL3012 中國文化與藝術專題**

#### **SPECIAL TOPICS IN CHINESE CULTURE AND FINE ARTS**

藉著對中國傳統文化的生活文化、表層文化及經典的介紹作為理解中國傳統文化核心理念的主要教材。中國文化的食療與養生、中國古代科技成就概論及反思、禪與中國文化、中國詩樂等都是本課程探討的重要主題。本課程希望藉此鞏固同學對中國文化藝術的認識及興趣，更能體驗傳統文化與現代生活的關係。

先修科目: 沒有

**CHLL3013 文心雕龍 WEN XIN DIAO LONG**

南北朝是中國文學批評及文學理論的一個重要發展朝代，《文心雕龍》的出現絕對不是偶然的，它既集合了文學理論與批評的大成之外，更是至今的文學批評準則的楷模。本課程以《文心雕龍》一書為研討對象，探討該書的理論體系，對中國文學批評思想的影響及其批評方法等，並評價其在文學史上的地位。

先修科目：沒有

**CHLL3014 古代文體專題 SPECIAL TOPICS IN CLASSICAL LITERARY GENRES**

本課程以介紹、考察和分析中國古典文學文體專題為主要內容。專題包括古典詩詞、古文、辭賦、古典戲曲、文言小說、章回小說、史傳文學等，旨在讓學生認識和了解中國古典文學中的各種文體的分類、源流、體式和風格，以及代表性作品，從而掌握各種不同文體的特質。

先修科目：沒有

**CHLL4000 中國傳統文論 TRADITIONAL CHINESE LITERARY THEORY**

本課程引導學生閱讀、分析、闡釋中國傳統文學理論和批評的代表性著作，通過討論、報告、撰寫論文等方式，啟發學生探討傳統文論的基本命題、範疇及其發展演變，並與現代文學理論和批評相比較。本課程旨在使學生熟悉歷代文論家和批評流派，掌握傳統文論的基本內容和批評方法並運用於文學批評，及培養學生獨立思考和分析批評的能力。

先修科目：沒有

**CHLL4001 畢業專題 I GRADUATION PROJECT I**

本課程指導學生從中國語言、文學、思想、文化等領域選擇研究課題，撰寫學士學位論文。本課程旨在使學生掌握創新性思考、擬定研究課題、瞭解研究背景、尋找選擇文獻資料、撰寫學術論文的完整過程，熟練運用注釋、參考書目等國際標準文章格式，並提升中文寫作能力。

先修科目：沒有

**CHLL4002 中外文學比較****COMPARISON BETWEEN CHINESE AND FOREIGN LITERATURES**

介紹比較文學這一跨文化、跨藝術的文學研究學科的目的、意義和方法，介紹比較文學研究范式的形成與發展、比較文學在未來人類文化發展中的地位，重點介紹中國文學與英語世界的互動，中西比較文學研究對傳遞中華文化、增進中外中國文學研究者的交流和互補等方面所具有的重要意義，令同學在通過相關課程掌握了中國文學文化與西方文學文化的基本知識的基礎上，對中西方的文學與文化有一整體的認識，對比較文學學科在中西方文學對話中所能發揮的作用有一深刻的認識。同時程選取中外美學史和文藝理論史上若干最具典型性且有現實意義的概念、範疇與論題，結合中西方小說名著、經典電影等藝術文本進行梳理與分析，廓清其基本內涵，確定其理論邊界，發掘其學術意蘊，為同學提供多維的文藝學知識視野，令其加深對文學藝術形式特徵及人文內涵的認知，並提升跨學科綜合分析和文藝理論修養。

先修科目：沒有

**CHLL4003 畢業專題 II GRADUATION PROJECT II**

本課程指導學生從中國語言、文學、思想、文化等領域選擇研究課題，撰寫學士學位論文。本課程旨在使學生掌握創新性思考、擬定研究課題、瞭解研究背景、尋找選擇文獻資料、撰寫學術論文的完整過程，熟練運用注釋、參考書目等國際標準文章格式，並提升中文寫作能力。

先修科目：CHLL4001

**CHLL4004 語言分析與研究 LANGUAGE ANALYSIS AND RESEARCH**

本課程通過學生選擇自己方言裡的一兩個語言特點，引導學生對語言事實進行調查，在語料和數據搜集整理的基礎上，嘗試從比較分析的角度入手，學會對語言特點的性質進行分析和確定，然後運用語言理論以及採用科學的研究方法詮釋該語言特點。通過對實例的分析和研究，讓學生親自實踐分析語言和研究語言的全過程，以提高學生分析問題和研究問題的能力。

先修科目：CHLL1001或CHLL1002

#### **CHLL4005 漢語語言學專題 I SPECIAL TOPICS IN CHINESE LINGUISTICS I**

對漢語語言學的某一個或幾個領域作較為系統的專題學習，培養學生對語言學的專業興趣，擴大學術視野，拓寬語言研究的角度，掌握一定的研究方法，從而提高學生對語言分析和研究的能力。教學方法為實例分析、小組討論報告等手段。

先修科目: CHLL1001或CHLL1002

#### **CHLL4006 中國古典文學專題 TOPICS IN CLASSICAL CHINESE LITERATURE**

本課程以專題的形式對中國古典文學展開討論研究，專題的選擇範圍涉及先秦至清代文學發展演變的各個方面，包括重要時期和階段，各類文體風格，主要作家、作品及流派，及古代文學發展與政治、宗教、思想、文化發展的關係，教學方式包括閱讀、討論、報告、撰寫論文等。本課程旨在使學生深入瞭解中國古典文學的特質，掌握分析運用文學史料的方法，並培養其獨立研究古典文學的能力。

先修科目: CHLL2001或CHLL2003

#### **CHLL4007 中國思想史 HISTORY OF CHINESE THOUGHT**

本課程引導學生閱讀、分析、闡釋中國思想史上的代表性著作，通過討論、報告、撰寫論文等方式，啟發學生探討中國思想從古代至現代的發展演變，使學生熟悉主要的哲學家 and 思想家，瞭解儒、道、佛等諸家思想，認識中國哲學思想的歷史、現狀和發展趨勢，並培養其批評性、哲理性思維的能力。

先修科目: 沒有

#### **CHLL4008 中國經典閱讀 READINGS IN CHINESE CLASSICS**

本課程選擇一至二部中國傳統文學、思想、哲學、文化的經典著作，在精細閱讀分析原著的基礎上，通過討論、報告、撰寫論文等方式，啟發學生展開集中深入的探討，使學生深化對經典著作和文化傳統的認識，並培養其獨立思考、分析、批評、研究的能力。

先修科目: 沒有

#### **CHLL4009 漢語語音學 CHINESE PHONETICS AND PHONOLOGY**

課程通過對學生對自己的母語習得和普通話的學習經歷，讓學生學會分析語音學的基本發音規律，運用粵語、普通話的知識，學會漢語音韻學的基本理論，瞭解漢語語音系統從古至今的歷史演變過程及演變規律，引導學生將語音學知識運用到學術研究和語言實踐中。

先修科目: 沒有

#### **CHLL4010 漢語語言學專題 II SPECIAL TOPICS IN CHINESE LINGUISTICS II**

對語言學的某一個或幾個領域作較為系統的專題講授，以進一步培養學生對語言學的專業興趣，擴大學術視野，拓寬語言研究的角度，掌握一定的研究方法，從而提高學生對語言分析研究的能力。教學方法為實例分析、小組討論報告等手段。

先修科目: CHLL1001 或 CHLL1002

#### **CHLL4011 文學批評專題 SPECIAL TOPICS IN LITERARY CRITICISM**

介紹中西方文學批評範圍內有代表性人物的著述，演示分別運用或綜合運用傳記批評、印象批評、形式主義文評、新批評、結構主義與符號學、後結構主義、女性主義、後殖民主義等中西方文學批評的模式與方法分析具體作品，有助學員深化與細化對文學批評理論和方法的掌握。該課程為“文學批評”必修課的配套輔助課程。

先修科目: 沒有

#### **CHLL4012 外國文學作品選讀 SELECTED READINGS IN WESTERN LITERATURE**

介紹由古希臘直至現代的西方重要文學作品，包括戲劇、詩歌、散文和小說等各種體裁，包括古典主義、浪漫主義、象徵主義、現實主義、自然主義、現代主義、後現代主義等各流派的作品。重點介紹荷馬、古希臘三大悲劇家、但丁、歌德、荷爾德林、莎士比亞、雪萊、華茲華斯、

陀斯妥也夫斯基、艾略特、普魯斯特、福克納、昆德拉、卡爾維納等西方文學名家。課程亦會對中西方文學作品進行比較分析，播放外國文學名著改編的電影錄影。

先修科目: 沒有

### CHLL4013 文藝學專題 SPECIAL TOPICS IN LITERATURE AND ARTS

介紹文藝倫理學的目的、意義、範域和方法，令學員從人性與審美相互動的角度加深對文學藝術形式特徵及人文內涵的認知。對藝術性敘事與倫理意識與之間的互動關係。

先修科目: 沒有

### CHLL7100 漢語語言學理論專題 TOPICS IN THEORIES OF CHINESE LINGUISTICS

本課程旨在提高學生的語言學理論素養，引導學生科學地借鑒和運用西方語言學理論，對漢語實際進行深入的觀察和分析。課程包括介紹當代語言學理論在漢語研究中的運用和所取得的重要成果，漢語語言學理論的最新進展，各種語言學理論在漢語研究中的展望等內容。

先修科目: 沒有

### CHLL7101 漢語語言學研究方法 METHODS IN CHINESE LINGUISTICS

本課程旨在系統介紹語言學的研究思路、方法和一些重要的語言學理論，指導學生採用科學的工具和方法對漢語進行共時或歷時的系統研究。課程包括語言學研究的一般方法和特殊方法，語言學研究中經常使用的工具性概念，各個語言學流派所採用的分析技術，國內學者建立的語言學理論等內容。

先修科目: 沒有

### CHLL7102 漢語社會語言學研究 STUDIES ON CHINESE SOCIOLINGUISTICS

本課程旨在引導學生深入瞭解語言與社會的關係，運用社會語言學的概念和方法觀察、分析漢語中的詞彙、語法、語音等現象。課程包括宏觀語言狀況的調查研究，語言政策的制定，語言變異與語言變體，漢語與華人社會，語言的接觸與競爭等內容。

先修科目: 沒有

### CHLL7103 古代漢語研究 STUDIES ON CLASSICAL CHINESE

本課程旨在進一步提高學生古漢語素養，引導學生將語言研究古今貫通——嘗試運用現代漢語的理論和方法解決古代漢語的問題。內容包括古代漢語的音韻、文字、訓詁、詞彙、語法、方法論等幾大專題。

先修科目: 沒有

### CHLL7104 現代漢語研究 STUDIES ON MODERN CHINESE

指導學生掌握必要的現代漢語專業性知識，培養學生觀察、分析和描寫共時狀態下漢語語音、語法和辭彙中的一些現象以及運用中的一些問題。內容包括現代漢語總論、文字、語音、詞彙、語法和修辭等幾大專題。

先修科目: 沒有

### CHLL7105 漢語語言學專題 I TOPICS IN CHINESE LINGUISTICS I

本課程旨在進一步提高學生的語言學素養，培養學生深入觀察、分析語言現象的能力。課程將就漢語語言學的一些本質問題進行深層次的探討，向學生介紹最新的語言學理論和方法、漢語研究中最前沿的一些問題，內容將涉及語言學的分支領域如語法學、詞彙學、語音學以及語言和文學之關係等。

先修科目: 沒有

### CHLL7106 漢語語言學專題 II TOPICS IN CHINESE LINGUISTICS II

本課程旨在進一步提高學生的語言學素養，培養學生深入觀察、分析語言現象的能力。課程將就漢語語言學的一些本質問題進行深層次的探討，向學生介紹最新的語言學理論和方法、漢語研究中最前沿的一些問題，內容將涉及語言學各分支領域。

先修科目: 沒有

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### **CHLL7107 漢語語法研究 STUDIES ON CHINESE GRAMMAR**

本課程將緊密結合漢語實際，介紹漢語語法研究中的一些熱點問題和主要的理論與方法，提升學生對漢語語法進行專題思考和學科探索的能力。課程包括當前國際上主要語法學派的研究狀況和思路，漢語語法的應用研究，漢語語法研究與中文資訊處理、對外語教學等相關學科的互補研究等內容。

先修科目: 沒有

### **CHLL7108 漢語聲韻研究 STUDIES ON CHINESE PHONOLOGY**

本課程旨在夯實學生的漢語音韻知識，引導學生在方言、隋朝和唐朝的反切系統的基礎上，探測古漢語的發音，以及古今發音的演變規律，為方言調查描寫及訓詁學、詞源學等相關學科的研究打下基礎。課程包括漢語音韻史，音韻研究方法，韻書概覽等專題。

先修科目: 沒有

### **CHLL7110 漢語詞彙研究 STUDIES ON CHINESE LEXICON**

本課程旨在夯實學生的詞彙學基本功。在此基礎上，引介詞彙學研究的前沿理論和方法，引導學生觀察、分析和描寫共時或歷時背景下漢語中一些具有規律性的詞彙現象，從而提高學生詞彙學研究的素養和水平。本課程的內容設置以詞彙學本體研究中的構詞法與詞彙化為側重點，兼顧它們與句法、漢語史、概念史、詞典學、語言接觸以及文獻學等學科領域的界面研究。

先修科目: 沒有

### **CHLL7200 漢語作為第二語言教學法**

#### **METHODOLOGY OF TEACHING CHINESE AS A SECOND LANGUAGE**

This course addresses the application of current methodologies in the teaching of Chinese as a Second Language. Developments in linguistics, educational and psychological studies lead to constant new input to foreign language teaching methodology and practice. The course introduces the student to major current practices and how research-driven innovations are developed in current practice.

Pre-requisite: None

### **CHLL7201 漢語作為第二語言教學課程設計與實習**

#### **SUPERVISED TEACHING PLANNING AND PRACTICE IN CHINESE AS A SECOND LANGUAGE**

A course wherein the student is supervised in the planning and delivery of class teaching sessions in Chinese as a Second Language within the framework of specific curricula. Students will prepare and present class designs and procedures to the instructor and fellow students, and receive critical evaluations thereon.

Pre-requisite: CHLL7200

### **CHLL7202 漢語教學語法 CHINESE PEDAGOGICAL GRAMMAR**

本課程旨在闡述漢語語法研究的基本理論，使學生能够運用語法知識分析漢語教學中的問題，側重從案例分析、知識運用的角度切入，並通過教學實踐展示語法點的教學。

先修科目: 沒有

### **CHLL7400 中國古典文學專題 TOPICS IN TRADITIONAL CHINESE LITERATURE**

本課程以專題形式對中國古代文學進行深層的研討，專題的選擇範圍涉及先秦至清代文學發展演變的各個方面，包括重要時期和階段，各類文體風格，主要作家、作品及流派，古代文學發展與政治、宗教、思想、文化發展的關係等。本課程旨在使研究生深入瞭解中國古代文學的特質，掌握分析運用文學史料的方法，並培養其獨立研究古代文學的能力。

先修科目: 沒有

**CHLL7401 中國現代文學專題 TOPICS IN MODERN CHINESE LITERATURE**

以中國現當代重要的文學現象為研究對象，劃分為若干專題進行高層次研討，以利於研究生初步把握對本學科的發展歷史及內部規律。本專題包括中國現當代文學學科發展與學科概念的學術反思，台港澳暨海外華文文學與中國新文學傳統的關係研究，現當代文學社團與文學流派的考察分析，現當代重要作家作品的重新解讀等內容。

先修科目: 沒有

**CHLL7402 文學理論專題 TOPICS IN LITERARY THEORY**

本課程旨在系統地、全面地介紹和講解古今中外文學理論的重要命題，對中國古代文學理論，中國現代文學理論，外國各流派文學理論和在新的科技形勢衝擊下出現的對傳統文學理論提出挑戰的新的理論現象，兼及掌握文學流派與文學理論之間的關係，提高研究生的理論思維能力和理論表達能力，掌握進入較深層次文學理論語境的門鑰。

先修科目: 沒有

**CHLL7403 古代文學研究方法  
METHODS IN THE STUDY OF TRADITIONAL CHINESE LITERATURE**

本課程綜合介紹中國古代文學的研究方法和學術規範，包括傳統的考據方法和批評方式，現代以文學批評為主而融合諸多學科的多元化研究方法，西方和日本漢學研究概述，學術論文撰寫的國際規範等。本課程旨在使研究生打開學術視野，以多角度、多方法研究古代文學，並訓練其按國際規範撰寫學術論文的能力。

先修科目: 沒有

**CHLL7404 現代文學研究方法  
METHODS IN THE STUDY OF MODERN CHINESE LITERATURE**

本課程以講授方法學之知識為主，在系統介紹中西文學研究方法的基礎上，對現當代文學選題、觀點提煉、材料開發和利用、論文操作等等重要環節進行理論解析，並輔之以相應的學術訓練，以利於研究生掌握學術研究規範和有效的學術研究方法，順利地進入學位論文的寫作。

先修科目: 沒有

**CHLL7405 中國文學專題 I TOPICS IN CHINESE LITERATURE I**

本課程旨在進一步提高學生對中國文學的認識，培養學生深入理解、分析中國文學的能力。課程內容主要由訪問學者或現教職人員在其特定專業領域而定。課程將就中國文學的一些本質問題進行深層次的探討，向學生介紹最新的文學理論和方法、中國文學研究中最前沿的一些問題，包括中國文學中的詩歌、散文、小說、戲劇等經典作品，以及中國文學與文化的關係。

先修科目: 沒有

**CHLL7406 中國文學專題 II TOPICS IN CHINESE LITERATURE II**

本課程旨在進一步提高學生對中國文學的認識，培養學生深入理解、分析中國文學的能力。課程內容主要由訪問學者或現教職人員在其特定專業領域而定。課程將就中國文學的一些本質問題進行深層次的探討，向學生介紹最新的文學理論和方法、中國文學研究中最前沿的一些問題，包括中國文學中的詩歌、散文、小說、戲劇等經典作品，以及中國文學與文化的關係。

先修科目: 沒有

**CHLL7407 中國古代文體專題 TOPICS IN TRADITIONAL CHINESE LITERARY GENRES**

本課程以專題方式研討中國古代文體的發展演變，專題選擇範圍包括各種體類的韻文、散文、小說、戲劇等。通過閱讀相關的文體分類、批評著作，以及分析探討各類文體的發展階段和代表作家作品，使研究生瞭解不同文體的特質，掌握不同文體的研究方法。

先修科目: 沒有

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## **CHLL7408 中國現代文體專題 TOPICS IN MODERN CHINESE LITERARY GENRES**

本課程旨在全面地介紹文學文體的知識系統，同時對中國現代文學和當代文學的文體特性，文體類型進行學理把握，並對各種文體理論有較深的涉歷，能夠進入不同文體的創作實踐之中進行文化體察。

先修科目: 沒有

## **CHLL7990 論文 THESIS**

學術論文是為攻讀哲學碩士學位（中國文學）課程和哲學碩士學位（漢語語言學）課程的研究生而設計的。學生將從中國文學和漢語語言學中選擇一個有價值的課題，包括中國古典文學、中國現代文學、中國古典語言學、現代漢語語言學，在導師的指導下對這些學術領域進行深入研究。為了滿足學術論文的要求，學生必須完成論文並通過答辯。

先修科目: 沒有

## **CHLL8000 中文研究方法論高級研讀 RESEARCH METHODS FOR ADVANCED STUDIES IN CHINESE**

本科目的是研究方法論方面的高級科目。哲學博士學位（語言學－漢語）課程的學生能通過對當代語言學研究成果的介紹和分析，了解不同的語言研究所採用的方法以及這些方法所表示的語言學的理論價值。利用這些學術成果啟發學習者對漢語(包括方言和漢語各類變體)語音和句法規律的認識和即將進行的博士階段的研究。哲學博士學位（文學－中文）課程的學生能加深對漢語文學研究方法論的系統性、理論性理解，分別從漢語文學和文化研究的傳統方法，西方人文學術研究對漢語新文學研究的影響與衝擊，以及中國特色漢語新文學研究方法的學術建構等方面展開研習，並進行一定的學術實踐訓練。

先修科目: 沒有

## **CHLL8001 學術寫作 ACADEMIC WRITING**

本課程旨在系統地、全面地介紹和論辯漢語人文學術特別是文學研究寫作的基本特性，基本規律和基本方法，從論文規範、選題策略，論文結構、語言要求等方面訓練研究生的操作技能。課程以寫作理論、文體理論與學術寫作實踐的訓練相結合，兼及論文書面發表和口頭發表的等問題進行討論。

先修科目: 沒有

## **CHLL8013 中國語言學專題高級研讀 ADVANCED TOPICS IN CHINESE LINGUISTICS**

本課程是專門為漢語語言學專業博士生規劃的高級研討課程。任課教師將會在理論語言學、社會語言學、語法學、音系學、語用學、方言學等學術領域精心挑選一組前言課題，引導博士生展開深入探討。課程目標是通過對這些問題的研討，進一步提升博士生們獨立地分析問題和解決問題的能力，以及創造性地整合前人、規劃議題，開拓創新的能力。

先修科目: 沒有

## **CHLL8042 中國文學專題高級研讀 ADVANCED TOPICS IN CHINESE LITERATURE**

系統地整合、討論中國現當代文學的學術體系，並對這一學科領域的重要學術課題展開討論。

先修科目: 沒有

## **CHLL8999 博士論文 DOCTORAL THESIS**

學術論文是為攻讀哲學博士學位（文學－中文）和哲學博士學位（語言學－漢語）的學生設計的。學生將從中國文學和漢語語言中選擇一個有價值、有意義的課題，包括但不限於中國古代文學、中國古典文獻學、中國現當代文學、古代漢語、現代漢語、方言學、社會語言學、應用語言學，並在導師的指導下對這些學術領域進行深入研究。為了達到博士論文的要求，學生需要完成博士論文並通過口頭答辯。

先修科目: 沒有



### **EELC1004/1005 LISTENING AND SPEAKING IMPROVEMENT I / II**

These courses will develop oral proficiency of spoken English and listening comprehension at an intermediate level. Listening will focus on note-taking and aural comprehension using thought-provoking material from texts, television, film and music. Speaking will focus on fluency, accuracy, and skills and strategies for effective communication and personal interaction. These courses will also place a large focus on vocabulary building and collocation for the purpose of improving spoken communication. A smaller focus on reading and writing will also be included in preparation for group presentations, role play and story telling. Group work involving discussion is an integral part of the course. In addition, the course will involve some contact assignments that will take place outside the classroom.

Prerequisite: None

Note: For the students admitted in AY 2016/2017 onwards who are placed in to EELC1001 or EELC1002

### **EELC1006/1007 READING SKILLS & STRATEGIES I / II**

These one-semester 3-credit elective courses provide a foundation in reading comprehension, critical reading, and vocabulary development. Students will learn to locate main ideas and supporting details; make inferences, and understand common idioms and expressions. In addition, students will learn strategies which will help them to read faster and more effectively. Course activities include reading and vocabulary assignments, discussions, and presentations.

Pre-requisite: None

Note: for the students admitted in AY 2016/2017 onwards who are placed in to EELC1001 or EELC1002

### **EELC1008 GRAMMAR & WRITING IMPROVEMENT I**

This is a one-semester course for elementary English language level students. Students have three class hours every week. This course uses the English sentence as a basic concept unit and builds upon the sentence toward academic paragraphs with topic, explanation, example, and link sentences. Students learn to recognize sentence-level errors such as subject-verb agreement and tense consistency; they identify paragraph-level errors such as cohesion and coherence. Basic academic vocabulary is also covered.

Global Skills Development in English Language Learning such as communication and collaboration, creativity and critical thinking, global citizenship, learner wellbeing, and digital literacies will be incorporated where appropriate.

Pre-requisite: None

Note: Only for the students who are placed in to E1a and IE1 (On ELC discretion)

### **EELC1009 GRAMMAR & WRITING IMPROVEMENT II**

These one-semester three-credit courses will focus on basic sentence structure for simple and compound sentences, expanding to complex sentence structures as students become more proficient. Editing to recognize sentence- and paragraph-level errors such as subject-verb agreement, pronouns and plural forms, use of referents and transitions, and problems with sentence fragments will also be covered.

Pre-requisite: None

Note: for the students admitted in AY 2016/2017 onwards who are placed in to EELC1001 or EELC1002

### **EELC1011 UNIVERSITY ENGLISH I**

This is a one-semester Academic English course for elementary English language level students. Students have six class hours, one tutorial hour and an e-learning requirement. This course introduces basic academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate elementary level. Simple academic texts and discipline-related materials enhance students' accurate use of basic grammar structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides a foundation for students to develop the academic English skills and

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abilities necessary for studying at the university level in English.

Pre-requisite: None

### **EELC1012 UNIVERSITY ENGLISH II**

This is a one-semester Academic English course for low-intermediate English language level students. Students have six class hours, one tutorial hour and an e-learning requirement. This course improves and consolidates academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate low-intermediate level. Short academic texts and discipline-related materials enhance students' accurate use of more complex grammar and text structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides practice for students to develop the academic English skills and abilities necessary for studying at the university level in English.

Pre-requisite: EELC1011 or a required score in a placement test

### **EELC1013 UNIVERSITY ENGLISH III**

This is a one-semester Academic English course for intermediate English language level students. Students have three class hours. This course develops and reinforces academic listening, speaking, reading and writing skills through students' active participation in diverse and intensive academic and discipline-related activities and assessments at an appropriate intermediate level. Academic texts and discipline-related materials enhance students' confident use of appropriate grammar and text structures, enlarge their vocabulary and facilitate their development of language skills for a variety of academic contexts. The course provides students with the academic English skills and abilities necessary for studying at the university level in English.

Pre-requisite: EELC1012 or a required score in a placement test

### **EELC2000/2001 ENGLISH FOR BUSINESS AND PROFESSIONAL CONTEXTS I / II**

Students will acquire skills and improve their ability in using English as an international language for business and professional communication. Using authentic texts as well as digital resources, the content of the course focuses on knowledge and skills required in various business management contexts including finance, human resources, marketing, production and services management. Emphasis is on listening and speaking skills for meetings, negotiations, presentations, and social situations. Up-to-date texts are used to develop reading and writing skills needed in business correspondence such as e-mails, minutes of meeting, business letters, and reports through the medium of English.

Pre-requisite: EELC1001/EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

### **EELC2004/2005 INTRODUCTION TO ACADEMIC WRITING I / II**

These two courses cover the basic skills students need for academic writing. Students will be taught writing techniques such as planning, drafting, and revising. In the second semester the main focus will be on the revision of papers using self- and peer-evaluation. Students will also be taught the basic skills of how to locate, evaluate, and document sources. Students are expected to learn these skills through analyzing sample papers, engaging in process writing, and responding to papers written by their peers. Upon completion of these courses, students are expected to have acquired the technical knowledge of how to write and organize a basic academic paper.

Pre-requisite: EELC1001/EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

**EELC2006 SPEAKING AND FLUENCY**

These courses aim to help students improve their English language skills, especially in regard to fluency and accuracy in spoken English. Speaking and Fluency course topics include, but are not limited to, pronunciation, intonation, and word stress with students asked to practice English in a host of different language settings. Students will explore current theory and practice of how to be a more effective user of English when speaking for various purposes. In the Public Speaking course, a review of current theories and practices regarding effective presentation skills will lead to an application of those skills when speaking for various audiences and purposes. Students will be asked to engage in critical review of themselves and others with an aim toward setting and meeting individual goals as they work to improve their expressive and persuasive skills.

Pre-requisite: EELC1001/EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

**EELC2007 SPEAKING IN ENGLISH: ORAL PRESENTATION SKILLS**

This course will help students improve their English language skills, especially their fluency and accuracy in spoken English. The course topics include, but are not limited to, practicing pronunciation, intonation, and word stress in English in a host of different language settings. Students will explore current theory and practice of how to be a more effective user of English when speaking for various purposes. Students will be asked to engage in critical review of themselves and others, with a view to setting and meeting individual goals as they work to improve their expressive and persuasive skills.

Pre-requisite: EELC1001/EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course

**EELC2008 ACADEMIC ENGLISH: SPEAKING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in previous University English or Academic English course(s). Additionally, students will learn to use introductory academic speaking skills. These skills include: logical persuasion, information sharing, meeting facilitation, impromptu speaking, and responding to questions. Students are expected to analyze sample academic speeches/presentations for discipline-specific academic features in preparation for advanced academic speaking. Depending on students' disciplines, they will be introduced to different genres in academic speaking (e.g. oral reports, persuasive/informative speeches, poster presentations, discussions, and oral reflections, etc.).

Pre-requisite: EELC1013 or a required score in a placement test

**EELC2009 ACADEMIC ENGLISH: WRITING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in University English or Academic English course(s). Additionally, students will learn to use introductory academic writing skills. These skills include: writing summaries and responses, conducting secondary research, evaluating sources, documenting the research process, considering the rhetorical situation, making an argument, paraphrasing from sources, using academic language, and writing coherently. Students are expected to analyze sample academic text for discipline-specific academic features in preparation for advanced academic writing. Depending on students' disciplines, they will be introduced to different genres in academic writing (e.g. essays, reports, case studies, research proposals, book reviews, literature reviews, reflective writing, etc.).

Pre-requisite: EELC1013 or a required score in a placement test

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## **EELC2010    ACADEMIC ENGLISH: PROJECT-BASED LEARNING**

This is a one-semester Academic English course for students with an intermediate English language level. Students have three class hours every week. The course requires students to apply the skills they have learned in University English or Academic English course(s). In groups, students will learn to use introductory academic writing and speaking skills to design and implement their multigenre/multimodal projects. These skills include: primary/secondary research, critical thinking skills, problem-solving skills, writing/presentation skills, teamwork, etc. Through experiential learning, students will be guided to observe, collect information, persuade, and generate a writing/speaking product.

Pre-requisite: EELC1013 or a required score in a placement test

## **EELC2011    ENGLISH SPEAKING FOR ACADEMIC RESEARCH**

This is a one-semester academic speaking course for students with an upper-intermediate English language level. Students have three class hours every week. The course also addresses the information literacy and higher-order thinking skills necessary for conducting extensive secondary research, constructing ideas, providing evidential support, and structuring ideas coherently in spoken academic settings. Students develop both verbal and non-verbal communication in small and large group academic settings. Students will critically evaluate their own and others' performances, and will learn how to utilize a variety of technology-enhanced communication tools. Other skills addressed in this course include critical thinking and argumentation.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

## **EELC2012    ENGLISH WRITING FOR ACADEMIC RESEARCH**

This is a one-semester academic writing course for students with an upper-intermediate English language level. Students have three class hours every week. This course addresses the information literacy and higher-order thinking skills necessary for conducting extensive secondary research, providing evidential support, and structuring ideas in coherent written academic texts. Students spend time responding to multiple drafts of peer academic papers to improve precision and clarity in the writing process. Other specific skills addressed in this course are critical thinking and argumentation.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

## **EELC2013    ENGLISH INTEGRATED SKILLS FOR ACADEMIC RESEARCH**

This is a one-semester integrated academic language course for students with an upper-intermediate English language level. Students have three class hours every week. Students will engage in data gathering, analysis and interpretation skills and communicate research results effectively in academic presentation or report formats. Students will critically evaluate their own and others' performances, and will learn to utilize a variety of technology-enhanced tools to aid in preparing and communicating academic concepts and findings. Upon completion, students are expected to have acquired a basic understanding of primary academic research methods and have developed techniques to effectively communicate concepts and research results.

Pre-requisite: EELC2008, EELC2009, EELC2010 or a required score in a placement test

## **EELC3004/3005    ADVANCED ACADEMIC WRITING I / II**

These one-semester three-credit writing courses will enable students to express themselves coherently when engaged in written academic discourse. The courses offer intensive work and instruction in writing skills through the discussion and analysis of assigned readings. Students spend time responding to multiple drafts of peer academic papers to improve precision and clarity in the writing process. Other necessary skills addressed in these courses are identifying and making logical arguments as well as avoiding faulty reasoning. Upon completion of these courses, students are expected to have acquired the confidence and techniques to write academic papers in a professional writing style.

Pre-requisite: EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English

language courses based on the placement/admission assessments may enroll in this course.

### **EELC3006/3007    ADVANCED SPEAKING I / II**

These courses emphasize elements of both verbal and non-verbal communication in public settings. Students will engage in a variety of public speaking activities, will critically evaluate their own and others' performances, and will learn how to utilize presentation tools such as handouts and PowerPoint. Students should enhance their confidence in speaking and demonstrate effective oral presentation skills.

Pre-requisite: EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

### **EELC3008/3009    ADVANCED INTEGRATED SKILLS I / II**

These one-semester three-credit courses may use a content- or theme-based approach to engage students in critical thinking, logical analysis, persuasion/argumentation, and other high level language skills required in academic English. Needs analysis will help determine which skills to emphasize each semester. Students will be expected to work independently and in groups. Topics may address current events as well as participants' major fields of study. Class materials will reflect the language level expected of high-intermediate to advanced level students whether they plan to enter the workforce or pursue graduate studies in English.

Pre-requisite: EELC1002/EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

### **EELC3010    INTRODUCTION TO ENGLISH LANGUAGE TUTORING I**

This 3-credit elective course offers students an opportunity to experience English language tutorials related to writing, speaking, and other language development and improvement skills. In a seminar format with the course instructor, students 1) learn about tutoring theories and one-on-one and/or small group tutoring strategies, 2) practice tutoring, and 3) critique each other's tutorials.

Students who are interested to continue accruing their tutoring experience may elect to take Introduction to English Language Tutoring II as an extension of Introduction to English Language Tutoring I. Introduction to English Language Tutoring I is not a prerequisite of Introduction to English Language Tutoring II, and students may enrol in one or both semesters of this course depending on the number of credits they wish to earn. Students are not required to take these two courses in sequence.

Pre-requisite: EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

### **EELC3011    INTRODUCTION TO ENGLISH LANGUAGE TUTORING II**

This 3-credit elective course offers students an opportunity to experience English language tutorials related to writing, speaking, and other language development and improvement skills. In a seminar format with the course instructor, students 1) learn about tutoring theories and one-on-one and/or small group tutoring strategies, 2) practice tutoring, and 3) critique each other's tutorials.

Students who are interested to continue accruing their tutoring experience may elect to take Introduction to English Language Tutoring II as an extension of Introduction to English Language Tutoring I. Introduction to English Language Tutoring I is not a prerequisite of Introduction to English Language Tutoring II, and students may enrol in one or both semesters of this course depending on the number of credits they wish to earn. Students are not required to take these two courses in sequence.

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Pre-requisite: EELC1003 or permission of instructor

Note: Students who are placed into English Electives or approved for test-out of all English language courses based on the placement/admission assessments may enroll in this course.

#### **EELC4004 ACADEMIC RESEARCH WRITING WORKSHOP**

This is a 3-credit elective writing course for students who need writing help when completing an undergraduate or graduate thesis. The course emphasizes the recursive nature of the writing process and takes students through the different stages of planning, drafting, and revising. The course will introduce students to methods of supporting arguments, positions, and points of view within a thesis, including various forms of citation and documentation of references. Students receive instructor feedback that focuses on readability, including cohesion and coherence. They also critique each other's writing, with an emphasis on the development of self-revision. Students will examine the various genres within thesis writing and evaluate the effectiveness of these writing styles. In particular, students will need to demonstrate an understanding of academic writing as a series of expert practices that are situated within specific disciplines, and to develop the necessary skills for reading and writing within those disciplines.

Pre-requisite: None

#### **Special Topic Electives (Meet 80 minutes/week for one semester)**

##### **EELC2002 SPECIAL TOPIC ENGLISH LEVEL II A**

Pre-requisite: None

##### **EELC3000 SPECIAL TOPIC ENGLISH LEVEL III A**

Pre-requisite: None

##### **EELC4000 SPECIAL TOPIC ENGLISH LEVEL IV A**

Pre-requisite: None

Notes: Special Topic courses meet once a week (1.5 hours) and carry 1 credit. They are meant to encourage students to take an English class for enjoyment or self-improvement and to be intrinsically motivated to sign up for and attend the class. At level II, one special topics class will be announced at each level each semester and at levels III and IV, two special topics classes will be announced at each level each semester. However, a minimum number of students will be required by the end of drop-and-add for the class to actually be offered.

#### **ENGL1000 INTRODUCTION TO LITERARY STUDIES I**

The purpose of this course is to help students develop basic skills for understanding major literary genres and to increase their sensitivity to the language and devices used in literature. Students will be introduced to a basic critical vocabulary with which to examine a range of literary texts. The genres covered in this course include poetry, and short fiction.

Pre-requisite: None

#### **ENGL1001 INTRODUCTION TO LITERARY STUDIES II**

The purpose of this course is to further develop reading and analytic skills for understanding extended works of prose and dramatic fiction. The course will build on the basic critical vocabulary introduced in ENGL1000. The genres covered in this course include the novel and drama.

Pre-requisite: ENGL1000

#### **ENGL1002 DESCRIBING THE SOUNDS OF ENGLISH**

This course studies the theory and techniques of descriptive linguistics as applied to the pronunciation of contemporary English. It addresses the basic questions of: What are the

sounds of English, how are they produced and perceived, and how are they described? The course will introduce students to the pronunciation of different varieties of English and increase their sensitivity to their own pronunciation of English.

Pre-requisite: None

### **ENGL1003 INTRODUCTION TO THE STUDY OF LANGUAGE**

This course surveys the major areas in linguistics and attempts to answer two questions: What is language? How can language be studied scientifically? To address these issues the course will introduce basic concepts and analytic tools for describing and explaining the nature and structure of language. Major topics may include properties of language, human language and other communication systems, brain and language processing, spoken and sign language, writing systems, language families, etc. The course will also raise the students' awareness and understanding of language use.

Pre-requisite: None

### **ENGL1004/1005 INTRODUCTION TO FRENCH I/II**

A course that focuses on the comprehension of spoken French and the ability to communicate orally in a variety of everyday situations. The reading and writing of simple texts will also be introduced.

Pre-requisite: None

### **ENGL1006 INTRODUCTION TO GERMAN I**

The course will integrate all four language skills, speaking, listening, reading and writing, throughout class and home assignments and provide guidance and practice to develop essential study skills. The main focus will be on understanding and speaking German of moderate difficulty, and you will be introduced to the contemporary civilization and culture of the German peoples through the textbook and supplementary materials from the Internet, CDs, etc. You will also study some of the major grammatical and structural aspects of the language.

Pre-requisite: None

### **ENGL1007 INTRODUCTION TO GERMAN II**

This course will integrate all four language skills in class and home assignments and provide guidance and practice to develop essential study skills. The aim will be to extend the number of typical everyday situations in which you are able to understand and speak German of moderate difficulty. In compliance with each chapter, you will receive information on the contemporary civilization and culture of the German peoples through the textbook and supplementary materials from the internet, cds, etc. You will also continue to study some of the major grammatical and structural aspects of the language.

Pre-requisite: ENGL1006

### **ENGL2000 SURVEY OF ENGLISH LITERATURE I**

This course presents a chronological survey of works from major periods and genres of English literature. Literature from important periods will be studied in their historical context. The course will begin with an introduction to English literature in the Anglo-Saxon period and end with an introduction to the Renaissance, and will include the study of Chaucer and English Renaissance authors.

Pre-requisite: None

### **ENGL2001 SURVEY OF ENGLISH LITERATURE II**

This course presents a chronological sampling of literature from major periods and genres of English literature, which will be studied in their historical context. The course will begin with the 18th century and continue to the end of the 19th century, covering topics that include Neo-classical satire, Romanticism, and writing in the Victorian period.

Pre-requisite: ENGL2000

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**ENGL2002 INTRODUCTION TO ENGLISH GRAMMAR**

This course describes the syntax and morphology of modern Standard English. It introduces in an accessible way the necessary terminology and modes of analysis that students need in order to understand English structure, and it provides a firm foundation for further studies in linguistics.

Pre-requisite: None

**ENGL2003 LANGUAGE AND SOCIETY**

This course will introduce students to the study of language in a social context and to the various theories and methods of sociolinguistics. Topics that will be covered may include bilingualism and multilingualism, second language variation, language and identity, dialectology, stylistic variation and language change.

Pre-requisite: None

**ENGL2004 LANGUAGE STUDIES FOR TRANSLATION**

This course is designed to compare and contrast Chinese and English at various levels – lexical, phrasal, sentential and textual. Theoretical concepts are introduced in relation to translation problems. Upon completion of this course, students are expected to appreciate the major differences between Chinese and English, and be able to use essential linguistic tools to deal with translation problems.

Pre-requisite: None

**ENGL2005 INTRODUCTION TO THE THEORY AND PRACTICE OF TRANSLATION**

This course prepares students for more specialized translation courses in later semesters. While it attempts to familiarize students with fundamental theoretical concepts of and various approaches to translation, it is a practice-oriented course by nature. Particular attention is placed on strategies and methods of translation in relation to the functions of the text, and on various approaches to deal with translation problems.

Pre-requisite: None

**ENGL2006 INTRODUCTION TO INTERPRETATION**

This course strengthens students' foundational knowledge and communicative abilities required in consecutive interpretation (CI). It is designed to train the students in the skills concerned, including vocabulary building, memory retention, thought organization, sight translation and note-taking. Students will learn to use the techniques of CI progressively, starting from single sentences to longer segments. Classes are conducted in the language laboratory to give students practical experience.

Pre-requisite: None

**ENGL2007 CONSECUTIVE INTERPRETATION**

This course concentrates on the practice of consecutive interpretation (CI). Focusing on coping tactics of CI comprehension, reformulation and production, it involves intensive practice sessions with various simulation drills on a diverse range of subjects. It also aims at building up students' public speaking and dialogue abilities and professionalism in the process. Classes and tests are conducted in the language laboratory.

Pre-requisite: None

**ENGL2009/2010 INTERMEDIATE FRENCH I/II**

A course that expands and extends the skills developed in ENGL1004/1005. Students will receive intensive instruction and practice in speaking, reading and writing.

Pre-requisite: ENGL1004/1005

**ENGL2011 GERMAN, ADVANCED BEGINNERS, LEVEL I**

The course will integrate all four language skills throughout the class and home assignments. The objective will be to expand 1) the range of vocabulary through the coverage of new topics of general interest and relevance and 2) the range of grammatical and structural aspects.



Listening and speaking will remain the focus of the course but there will be a stronger emphasis on reading and writing compared with the beginner courses to apply and strengthen the acquired skills and knowledge freely and comprehensively. In addition, background information on the contemporary civilization and culture of the German peoples will be provided.  
Pre-requisite: ENGL1007

### **ENGL2012 GERMAN, ADVANCED BEGINNERS, LEVEL II**

The course will be of the same nature as German for Advanced Beginners, Level I. All four language skills as well as grammar will be integrated in class and home assignments. The objective will be to apply and strengthen the acquired knowledge and skills and to expand on 1) the range of vocabulary through the coverage of new topics of general interest and relevance and 2) the range of grammatical and structural aspects. Students will be guided towards applying the existing knowledge freely and comprehensively in relevant tasks. The focus will be on communicative competence, which means students will have to use communication skills and the language appropriately depending on the given task context, with grammar as integral component necessary to varying extent. Background information on the contemporary civilization and culture of the German peoples will be provided.

Pre-requisite: ENGL2011

### **ENGL3000 LANGUAGE AND MEANING**

This course is concerned with one of the fundamental issues in linguistics: meaning. It looks at meanings of individual words and the meanings they engender in combination (semantics), as well as how language-users construct meaning in communication (pragmatics). Fundamental concepts and issues introduced may include sense and reference, semantic features, lexical relations, polysemy, non/literality, presupposition, inference, implicature, speech acts and politeness.

Pre-requisite: None

### **ENGL3001 20TH CENTURY AND CONTEMPORARY LITERATURE IN ENGLISH I**

This course introduces students to a selection of major texts in poetry and fiction that illustrate important themes, concerns, and literary techniques of literature in English during the first half of the 20th century. The main emphasis will be on Modernism in Anglo-American writing.

Pre-requisite: None

### **ENGL3002 ANALYZING SPOKEN DISCOURSE**

This course will introduce the major approaches to the analysis of spoken discourse, including conversation analysis, speech acts theory, ethnography of communication, and interactional sociolinguistics. It will equip the student with basic methodologies of data collection, transcription and analysis and establish those techniques essential for studying spoken discourse in various contexts.

Pre-requisite: None

### **ENGL3003 20TH CENTURY AND CONTEMPORARY LITERATURE IN ENGLISH II**

This course introduces students to selected major texts that illustrate important themes, concerns, and literary techniques of literature in English during the 20th century. Topics to be covered may include key postwar texts in the Anglo-American tradition, the theatre of the absurd, feminist concerns, postmodernism, and English literature from outside the Anglo-American tradition.

Pre-requisite: ENGL3001

### **ENGL3004 BILINGUALISM**

This course introduces students to the basic concepts and issues in the study of bilingualism by focusing on issues related to the social and cultural background of bilingual communities, more specifically, the systematic use of different languages, language maintenance and shift, language attitudes and the motivations and effects of code-switching. The course discusses how some key concepts have been applied in accounting for individual/societal bilingualism in

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Hong Kong, Singapore and Macao.

Pre-requisite: None

### **ENGL3008 LANGUAGE AND COGNITION**

The course investigates the relationship between language, language use, and human cognition: how language is grounded in human perception and conceptualization at both the individual and sociocultural levels. The course will introduce students to the fundamental concepts and issues involved, including frames, attention, metaphor, metonymy, categorization, and mental spaces.

Pre-requisite: None

### **ENGL3009 SYNTAX**

This course introduces students to the fundamental issues in the description and analysis of phrase and clause structures. Students will learn analytic skills in the survey of major syntactic phenomena, including phrase structure, constituency, the lexicon, agreement, movement, negation, clause types, and subordination.

Pre-requisite: None

### **ENGL3011 LANGUAGE ACQUISITION**

This course provides a broad overview of theories and issues relevant to language acquisition. We will examine the process of language acquisition divided into discrete areas such as lexicon, syntax, and pragmatics as well as a unified process taking place in parent-child interaction. Through reading and discussion, we will consider how social as well as cognitive factors contribute to children's language acquisition and development. The coursework will involve extensive reading and discussion as well as panel presentation.

Pre-requisite: None

### **ENGL3014 WORLD ENGLISHES**

This course will introduce students to the study of contemporary and historical varieties of English worldwide. The pluralistic status of English varieties as well as the nature and effect of standards and standardizing varieties will be emphasized. The course may include historical approaches to varieties, geographical approaches or an approach that focuses on several recurring themes of how English is used internationally.

Pre-requisite: None

### **ENGL3016 ADVANCED ENGLISH STRUCTURE**

The course is a more in-depth study of English grammar. It provides students with the argumentative techniques required in syntactic analyses. Particular attention will be given to the gradient nature of English categories and structures. The course will draw insights from different approaches where appropriate.

Pre-requisite: None

### **ENGL3018 MORPHOLOGY**

This course introduces students to the basic issues of linguistic morphology, the study of the structure of words. It covers important areas such as wordhood, word-formation processes, inflection, derivation, compounds and allomorphy. The course also examines current research on the relations between morphology, phonology and syntax.

Pre-requisite: None

### **ENGL3020 NARRATIVE, DISCOURSE AND IDENTITY**

Narrative-making is a basic human behavior which pervades all domains of human experience. In terms of form, narratives can range from the most complex saga to the simplest recount of mundane events. More fundamentally, however, narratives fulfill certain crucial functions in human life: in cognition, information structuring, identity construction and performance, intersubjectivity, and sociocultural ritual. This course examines the construct of 'narrative' — what it is, what its structure is, how it is constructed, how it has been theorized — and how its

various functions manifest themselves linguistically in discourse.

Pre-requisite: None

### **ENGL3021 CHILDREN'S LITERATURE**

This course is an introduction to British literature for children and historical attitudes towards childhood, play, and education, from the eighteenth century to the present day, and covering classic and contemporary texts from different genres. These may include nursery rhymes and nonsense, fairy tales and fantasy, picture books and comics, animals and anthropomorphization, school stories, and morality and didacticism. The course will typically include an examination of the idea of childhood and the origins of children's writing, as well as how children are taught to read.

Pre-requisite: None

### **ENGL3022 VICTORIAN LITERATURE**

This course is an introduction to novelists, poets, dramatists, and prose writers whose work contributed to the diverse range of writing in the Victorian period. Students will study a range of texts in their social, religious, scientific, philosophical and aesthetic contexts, covering issues such as the Industrial Revolution, imperialism, faith and doubt, and the 'Woman Question'.

Pre-requisite: None

### **ENGL3023 ROMANTICISM**

This course will focus on the Romantic Movement, beginning with its rise to prominence in the late 18th century to its later influence on Western writing. Key English Romantic poets will receive special attention. Certain classic texts of the Gothic genre may also be considered. The socio-historical and cultural origins of Romanticism and its influence on near-contemporary Western writing may also be examined. A parallel aim of this course is the development of competence in the analysis of poetry, especially the lyric poem.

Pre-requisite: None

### **ENGL3024 DRAMA AND THEATRE**

This course is designed to give the student a fuller understanding of the relationships between dramatic literature, performance, and society. This course will combine the academic study of dramatic literature with that of theatre history to demonstrate the inherently social character of drama-in-performance. A selection of plays and excerpts will be read and considered within cultural, social, and theatrical contexts.

Pre-requisite: None

### **ENGL3027 20<sup>th</sup> CENTURY AMERICAN LITERATURE**

This course will focus on an area of interest in American society within the twentieth century. American writers writing in English in different genres will be studied in relation to core themes or movements.

Pre-requisite: None

### **ENGL3029 INTRODUCTION TO LITERARY CRITICISM**

In this course students shall study key movements and figures representative of literary and cultural theory from the 20th-century to the present toward the goal of building a strong foundation and background in literary scholarship. The course will be both reflective (by encouraging students to think critically about literature and its intersections with philosophy, politics, ethics, psychology, and sociology, among others) and practical (by equipping students with a substantive critical vocabulary to productively participate in scholarly discourse within the broad field of literary and cultural studies). This course was designed to be both a historical introduction to the various schools of 20th-century criticism as well as an immersion in the theory and practice of literary and cultural criticism.

Pre-requisite: None

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**ENGL3030 SHAKESPEARE**

This course is designed to give students an opportunity to explore a range of Shakespeare's plays through which they can learn to appreciate the thematic and linguistic richness of the playwright's works. Selected plays will be studied in connection with the theatrical and cultural backgrounds of Elizabethan England. Students will also be familiarized with schools of Shakespearean criticism in the 20th- and 21st-centuries. In addition, the class will read selected sonnets and narrative poems.

Pre-requisite: None

**ENGL3031 CREATIVE WRITING I**

This course uses examples of canonical or famous literature to develop critical reading skills and, more importantly, to support the production by students of their own imaginative work. The focus is on students' creative production, in both individual and in group work.

Pre-requisite: None

**ENGL3033 THE ENGLISH RENAISSANCE**

This course is designed to offer students an opportunity to broaden their understanding of the English Renaissance and to develop a critical appreciation of the work of major writers from the period. Areas of study will include texts from Elizabethan, Jacobean and Caroline periods. A number of key concepts will be introduced, such as 'Humanism', 'Metatheatre' and 'Metaphysics'. We will also explore popular themes and topics which include love, sex, music, religion and order.

Pre-requisite: None

**ENGL3034 POSTCOLONIAL WRITING**

This course is a general survey of the issues and concerns in the field that is broadly called postcolonial studies. It aims to develop a critical awareness of the effects of British imperialism on the literary production of formerly colonized places. A selection of literary texts from outside the Anglo-American tradition will be read alongside critical texts dealing with concerns such as identity, representation, nationhood, and diasporas.

Pre-requisite: None

**ENGL3035 WORLD LITERATURES IN ENGLISH**

This course will examine the histories, development and concerns of literatures written in English outside the Anglo-American tradition defined in relation to specific geographical areas, national cultures or socio-political movements. The specific areas for study will depend on faculty availability and specialist interest.

Pre-requisite: None

**ENGL3036 LIFE NARRATIVES**

This course is designed to introduce students to the literary genre of life narratives and to familiarize them with the interrelationship between fact and fiction. Texts studied are chosen from different cultures and historical periods in order to provide a survey of different forms of life writing (auto/biography, memoir, diary), as well as different modes of discourses in relation to one's socio-cultural identity.

Pre-requisite: None

**ENGL3038 MAJOR AUTHORS**

This course is an intensive study of the life and the works of a significant author (or authors) with important contributions to the development of canonical or contemporary literature written in English. Author(s) studied may vary from year to year.

Pre-requisite: None

**ENGL3039 SPECIAL TOPICS IN LITERATURE I**

This course is a focused study of an area in literary studies.

Pre-requisite: None

**ENGL3040 SPECIAL TOPICS IN LITERATURE II**

This course is a focused study of an area in literary studies.

Pre-requisite: None

**ENGL3041 SPECIAL TOPICS IN LINGUISTICS I**

This course is an intensive study of an area in linguistics. The content will vary from year to year depending on the availability of staff.

Pre-requisite: None

**ENGL3042 SPECIAL TOPICS IN LINGUISTICS II**

This course is an intensive study of an area in linguistics. The content will vary from year to year depending on the availability of staff.

Pre-requisite: None

**ENGL3043 LANGUAGE, CULTURES AND TRANSLATION**

This course provides students with an awareness of cross-cultural differences and cognitive problems involved in inter-lingual translation. The first part of the course will discuss general problems in cultural representation and reception, with special reference to issues such as 'linguistic differences', 'religious differences' and 'conceptual differences'. The second part of the course will discuss translation strategies and methods of rendering cultural differences.

Pre-requisite: None

**ENGL3044 TRANSLATION FOR THE MEDIA**

This course is an introduction to translation for the media. Texts to be translated and adapted may include: news reports/releases, interviews, public notices and advertisements. Special attention will be paid to the linguistic, stylistic and cultural features of writing for the media in both Chinese and English so that students will learn how to apply different strategies and methods to translating texts for different purposes.

Pre-requisite: None

**ENGL3045 TRANSLATION OF BUSINESS AND LEGAL WRITINGS**

This course introduces the characteristic features of business and legal writings and translation strategies and methods employed when by translating a variety of business and legal documents. Such documents may include minutes, annual reports, business correspondence, tender documents, and legal contracts. Particular attention will be paid to translation problems such as legal equivalence, terminology, register, and structural layout.

Pre-requisite: None

**ENGL3046 CONFERENCE INTERPRETATION**

This course will mainly focus on training students in simultaneous interpretation, though consecutive interpretation will also be discussed. Students will be introduced to note-taking, mnemonic devices, visualization and other techniques employed in interpretation. The course will include an overview of conference interpretation and introduce techniques employed in the practice through selected readings and workplace simulation.

Pre-requisite: None

**ENGL3047 LITERARY TRANSLATION**

This course offers a general introduction to the theory and practice of translation of literary writings. It introduces core theoretical concepts of literary translation along with analyses of selected literary translations as examples. It involves appreciation and understanding of different literary genres, emphasizing identification of linguistic, stylistic and cultural features of literary texts and application of translation strategies and methods specific to literary translation.

Pre-requisite: None

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**ENGL3048/3049 READING COMPREHENSION AND WRITING I/II**

A continuation of ENGL2009/2010. A more advanced course in comprehension and writing skills.

Pre-requisite: ENGL2009/2010

**ENGL3051 THE GOTHIC**

This course is an introduction to classic Gothic literature and representations of the supernatural, with an emphasis on terror and horror, trauma and the body, and politics and history. Students will study classic literary texts and films covering topics such as ghosts and vampires, dreams and madness, the uncanny, and the haunted house. The course will typically analyze these materials from perspectives including historical contexts, gender and sexuality, race and ethnicity, science and medicine, environmentalism, and recent critical theory.

Pre-requisite: None

**ENGL4000 RESERCH REPORT**

Students selected for the Research Report class will work on a research topic of their choice over one semester. Thesis topics will be selected and developed under the supervision of a staff member with whom the student will meet regularly. The length of the report will usually be between five and eight thousand words.

Pre-requisite: None

**ENGL4001 GRADUATION PROJECT**

Students who elect to take the Graduation Project class will work on a research project that involves an element of outreach (e.g. involvement in workplace learning; school, community or residential college liaison; fieldwork; participation in a recognized competition, interviewing; etc.). Students will meet on a regular basis with the staff member acting as their project supervisor. The meetings will plan the project and organize the outreach element. The elective will be examined by a portfolio of assignments which may be both practical and reflective, and which in total will usually amount to between five and eight thousand words.

Pre-requisite: None

**ENGL4002 TRANSLATION WORKSHOP**

In the translation workshop, students will be working in groups, and each group has to translate a long piece of text of a particular genre. During the course of translation, discussions will be conducted on how to solve translation problems and how strategic decisions are to be made. Presentations will be given by students on their translation experience and their final product. Good translations may be selected for publication.

Pre-requisite: None

**ENGL4003 AUDIOVISUAL TRANSLATION**

This course mainly introduces subtitling for film and television between English and Chinese, the primary form of audiovisual translation. The nature and characteristics, as well as translation principles and strategies pertaining to subtitling and other special topics such as dubbing and song translation will be reviewed and discussed. Emphasis is placed especially on subtitling practice and the translation techniques for overcoming the conflict between the medium constraints and comprehensibility of culture-bound utterances.

Pre-requisite: None

**ENGL4004 TRANSLATION OF JOURNALISTIC WRITING**

This course is designed for students who wish to further their interest in the translation of journalistic writings, which include news articles, editorials and commentaries across a wide spectrum of fields. It will involve an in-depth study of the characteristics of journalistic writing and the differences between journalistic writing in Chinese and English. Students will translate a wide variety of texts including reportage and reviews on politics, economics, culture, sports and entertainment. They will also be introduced to aids and tools employed in journalistic translation for web-based portals.

Pre-requisite: None

#### **ENGL4005 SIMULTANEOUS INTERPRETATION**

This course will involve intensive sessions of practice in listening, comprehension, shadowing, paraphrasing and finally simultaneous interpreting. Texts for interpretation will be selected from a variety of fields and genres to expand general knowledge and vocabulary of students. The course will also help students acquire a better understanding of the subject of interpreting in general and Simultaneous interpretation in particular.

Pre-requisite: None

#### **ENGL4006 SPECIAL TOPICS IN TRANSLATION I**

This course is designed to permit visiting scholars, or existing staff, to offer undergraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff.

Pre-requisite: None

#### **ENGL4007 SPECIAL TOPICS IN TRANSLATION II**

This course is designed to permit visiting scholars, or existing staff, to offer undergraduate level courses in their particular areas of specialization.

Pre-requisite: None

#### **ENGL4008/4009 FRENCH IN THE MODERN WORLD I/II**

A course that introduces students to a range of authentic contemporary texts representative of modern French culture, both in France and in the wider French-speaking world.

Pre-requisite: ENGL3048/3049

#### **ENGL7001 LINGUISTICS RESEARCH METHODS**

The purpose of this course is to improve students' language awareness, academic communication skills, and research abilities so they can perform competently as they complete an MA degree in English. Course content and activities are meant to develop skills in academic research and writing to include understanding research methods and thesis development processes as well as presenting research proposals orally and in writing.

Pre-requisite: None

#### **ENGL7002 COMPARATIVE CHINESE - ENGLISH STRUCTURE**

This course involves the comparative description and analysis of the respective sound structures, morphological structures, and syntactic structures of Chinese and English from the perspective of current linguistic theory. Topics addressed may include tone, stress, and rhythm in the languages, prosody, word formation, phrasal and clausal structure, interrogation, embedding, conjoining, comparison, focusing devices, the auxiliary, and temporal and aspectual representation.

Pre-requisite: None

#### **ENGL7003 DESCRIPTIVE LINGUISTICS**

This course covers three fundamental areas of language description: the analysis of morphology (word structure), syntax (sentence structure), and semantics (the structure of meaning). Examples will be drawn from English and other languages, including Chinese.

Pre-requisite: None

#### **ENGL7004 PSYCHOLINGUISTICS**

This course introduces students to the biological, neurological and cognitive bases for language, language development, multilingualism and second language acquisition, and language disorders. It will also deal with some aspects of natural language processing in relation to certain areas of linguistic analysis: phonology, the lexicon, morphology, syntax, semantics, and discourse.

Pre-requisite: None

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### **ENGL7005 SOCIOLINGUISTICS**

This course introduces key concepts and approaches to the sociolinguistics of bilingualism and multilingualism, with a particular focus on Chinese communities such as Macau, Hong Kong, Singapore, Taiwan and other Chinese cities. Topics covered include language use in bilingual/multilingual communities, language choice, language maintenance and shift, language attitudes and language ideologies, and language in globalization. Students are encouraged to reflect on their own bilingual or multilingual experience to apply the theories or models critically in their own social contexts. Not only classic papers but also current research articles will be discussed in the hope of providing the necessary background for students who consider writing their MA theses on topics of societal bilingualism or multilingualism.

Pre-requisite: None

### **ENGL7006 SYNTAX - THE STRUCTURE OF ENGLISH**

This course will deal with the advanced description of syntactic structure from the perspective of the course is a more advanced study of English syntax assuming some basic knowledge of English grammar. It describes and analyses the structure of English from a current syntactic perspective. It deals with constituency, phrase structure of different kinds and clause structure. It applies theory to practical issues in English syntax and evaluates competing analyses.

Pre-requisite: None

### **ENGL7007 CINEMA STUDIES**

This course considers the emergence of cinema in the twentieth century and looks at world cinema from various points of view. Students, with the aid of various readings from film theorists, will view and discuss a variety of classic and contemporary feature films.

Pre-requisite: None

### **ENGL7008 COLONIAL AND POSTCOLONIAL WRITING**

This course will examine the interactive relationship between imperialism/colonialism and literature written in English. The role of imperial discourse in the shaping of 19th and early-20th century English fiction and the reciprocating role of imaginative writing in the maintenance of British imperial authority will be an important focus of the course. Significant attention will also be devoted to writing as a counter-discursive reaction to imperialism and colonialism.

Pre-requisite: None

### **ENGL7009 DRAMA & THEATRE STUDIES**

This course will address major works of dramatic literature spanning the sixteenth to twentieth centuries and will examine the development of realism and naturalism in the creation of modern and contemporary drama. In addition to textual analysis, students will look at various plays from the point of view of production, and the works of major directors will also be considered. The course aims to place dramatic works within the context of theatre studies.

Pre-requisite: None

### **ENGL7010 MODERNITY IN ENGLISH LITERATURE**

This course examines the impact of modernity on English and American literature. The course will trace the emergence, development, and influence of modernism in Anglo-American writing. The first half of the 20th century, the period of High Modernism, will receive special attention. Also considered will be the legacy and surviving influence of modernism.

Pre-requisite: None

### **ENGL7011 ROMANTICISM**

This course is an in-depth study of the impact of Romanticism on Anglophone writing. The course will begin with a consideration of the origin of romanticism, its development, and application as a conceptual model. Romantic poetry in the English tradition and its influence on near-contemporary and later writers will be a primary focus. Some major themes can include nature, time, love, and death.

Pre-requisite: None



### **ENGL7012 VICTORIAN NOVELS AND POETRY (1840 – 1870)**

Covering the period of High Victorianism, the course looks at novelists like Dickens, Mrs. Gaskell, Disraeli, and the Brontes as social critics. The course also includes issues of British regionalism and provincialism in 19th-century fiction, focusing on such authors as Eliot and Hardy. Works by Tennyson, the Brownings, and other major poets of the period will be studied within their social and intellectual contexts.

Pre-requisite: None

### **ENGL7013 DISCOURSE ANALYSIS**

This course covers the key concepts and methods of the linguistic approach to the analysis of spoken discourse and written discourse. Topics covered will include language beyond the sentence, global and local properties of speech and writing, narrative structures, new and old information, subjects and topics, foregrounding and backgrounding.

Pre-requisite: None

### **ENGL7014 HISTORY OF ENGLISH**

This course surveys the development of English from the fifth century until the present, including the historical and cultural contexts of changes in the language. Old, Middle, and Early Modern English texts will be examined in terms of phonology, graphology, morphology, lexicon, syntax, and semantics. Topics such as the effects of cultural and technological developments, dialectal variation, and genetic affiliations may also be examined.

Pre-requisite: None

### **ENGL7015 SPECIAL TOPICS IN LINGUISTICS**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on the availability of specialized staff. Examples of specialized topics that may be offered include: Language and Gender, Second Language Reading and Writing, Language Typology, Morphology and Lexicography, etc.

Pre-requisite: None

### **ENGL7016 GENRE STUDIES**

This course will present the concept of literary kinds or types, including the problems of classification, the ways in which expectations of genre influence understanding, and the relationship between genre and ideology. Selected forms of imaginative literature, such as the novel, poetry, and drama, as well as non-imaginative types, such as journalistic essays and travel writing, will be studied.

Pre-requisite: None

### **ENGL7017 SHAKESPEARE**

This course will offer an advanced analysis of selected plays showing the generic range of Shakespeare's work. Non-dramatic works may also be included. The course considers varying stage realizations of Shakespeare's drama and the centrality of Shakespeare in Western literature.

Pre-requisite: None

### **ENGL7018 SPECIAL TOPICS IN LITERATURE**

This course is designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in their particular areas of specialization. The topic and content of the courses will vary from year to year depending on availability of specialized staff. Examples of specialized topics that may be offered include: detailed and close study of major works of literature e.g., Joyce's *Ulysses*, Shakespeare's *Hamlet*; Milton's *Paradise Lost*; particular genres, e.g., travel writing, satire, science fiction; or study of a particular writer.

Pre-requisite: None

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### **ENGL7019 WORLD ENGLISHES**

This course will undertake an examination of the nature of international languages, global communication, and the historical context that has led to the current use of English as an international language. In addition to the study of international varieties of English, this course will examine issues such as language policy, language education, literary canons, and language change within the context of the global use of English as an international medium of communication.

Pre-requisite: None

### **ENGL7020 BILINGUALISM**

This course aims at introducing the study of language contact and ways to analyze code-switching in different social, cultural, communicative and generic contexts. It starts with a broad survey of various language contact phenomena, and then it will focus on the major ideas and frameworks that have been proposed to analyze code-switching. The last part of the course will be devoted to the currently very popular notion of translanguaging. The discussion will draw on research on Chinese/English contact, in the hope that students who are interested in the subject will find inspiration for their MA dissertation.

Pre-requisite: None

### **ENGL7021 COGNITIVE LINGUISTICS**

The course introduces the student to Cognitive Linguistics, a field in linguistics which studies the relationship between language, language use, and human cognition: how language is grounded in human perception and conceptualization; from the most mundane linguistic expressions about time and space. The course covers fundamental concepts and issues, as well as the major theories of the field, including frames, attention, conceptual metaphor, metonymy, categorization, and mental spaces. Students will also learn to use various empirical methods, including corpus technologies and laboratory experiments, to carry out their own research projects.

Pre-requisite: None

### **ENGL7022 CORPUS LINGUISTICS**

This course will introduce students to the methods and issues involved in corpus linguistics. It aims to demonstrate the practical use of online corpora to explore questions asked by scholars of language, and to address some of the central issues raised by corpus design and analysis. Students will familiarize themselves with the research use of online corpora and the construction and analysis of original corpora using freeware concordance tools. At the same time, the classes will consider various aspects of language analysis concerning lexis and grammar, and questions of language variation and change.

Pre-requisite: None

### **ENGL7023 MEDIA DISCOURSE**

This course explores some of the more recent genres of broadcast talk in close detail, focusing on cases such as the celebrity interview, the talk show, news interviewing and some kinds of reality TV show. The course explores the way language has been adapted to the requirements of new media such as the internet and the cell phone. By the end of the course students should be familiar with key concepts for understanding mediated language drawn from sociology, linguistics and critical discourse analysis including notions of register, genre, the cooperative principle, implicature, face work, politeness, participation framework and social deixis. They should also have gained competence in collecting, transcribing where necessary, and analyzing instances of broadcast talk or mediated language using concepts acquired in the course.

Pre-requisite: None

### **ENGL7024 CRITICAL READING**

are interested in literary studies. 'Reading' refers to the skill of registering literary form, recognizing intertexts, and interpreting; it also refers to reading literary texts in the contexts

within which they are produced and circulated, and, where it is enriching, with the help of concepts associated with literary theory. The course concerns, in brief, the reading of literature, context, and theory in the preparation of criticism of one's own. Toward that goal, this course will be an introduction to the theory and an immersion in the practice of literary scholarship. We shall collectively explore the philosophical foundations of the discipline of Literary (and by extension Cultural) Studies to understand the literary profession as well as the pursuit of advanced degrees in literatures in English. Also, the course aims to develop knowledge and skills in identifying, gathering and evaluating sources, defining/refining a research topic, and persuasively presenting your research.

Pre-requisite: None

### **ENGL7025 LANGUAGE AND POPULAR CULTURE**

The study of Sociolinguistics has traditionally dismissed data from popular culture because it is neither spontaneous nor naturally occurring. More recent attention, however, has been given to the linguistic performance of identity within popular culture and the implications that various performances have within the expression of ethnolinguistic identity and language ideologies. This course will examine some of the important theoretical developments within the study of language and identity, including stylization, communities of practice approach, language crossings and the acts of identity approach.

Pre-requisite: None

### **ENGL7026 ADVANCED CINEMA STUDIES**

This course focuses on global cinema or filmed literature. It specifically explores issues of industrial practices, authorial subjectivities, spectatorship, and social ideologies. Topics to be covered include but not limited to auteur studies, genre studies, star studies, and other critical approaches to film studies, including feminism, postmodernism, and queer theory.

Pre-requisite: None

### **ENGL7027 ASIAN DIASPORA LITERATURE IN ENGLISH**

Asian Diaspora literature involves writing that concerns the global movement of Asian people. This literature records Asian experiences of diaspora while inscribing the cultural, social, and political forces bearing on authors and their communities. Consequently, it is a body of writing that explores issues such as subjectivity, identity, home, alienation, displacement, belonging, community, memory, assimilation, discrimination, etcetera. In this course students will read literary texts in this category, along with relevant criticism and theory to explore a selection of those aforementioned issues. Also, students will develop their own idea about those works, and exercise research, presentation, and writing skills.

Pre-requisite: None

### **ENGL7028 REPRESENTING THE SHOAH: THE HOLOCAUST IN LITERATURE, MEMOIR AND FILM**

This course looks at how the Shoah (Holocaust) is represented in various genres, including memoirs or testimony by survivors, in fiction and drama, and in film and other artistic media.

While this course does not aim to provide a study of the Holocaust as a whole, a subject more suited to history, politics and sociology, it will attempt, through the study of various literary and other artistic texts, to provide students with an overview of responses from those who endured and survived the horror as well as from those who have written about the Shoah from an historical distance.

Pre-requisite: None

### **ENGL7029 ECOLOGY AND APOCALYPSE**

This course will consider the theme of environmental crisis in both its historical and contemporary aspects. As well as considering issues of environmental collapse, it will comprehend also the human and cultural dimensions of disease, depopulation and migration associated with climate change and natural disaster. The course will encourage students to extend ecocriticism beyond its customary preoccupation with historical Romanticism and

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contemporary wilderness by fostering an interest in the depiction of environmental crisis in popular culture.

Pre-requisite: None

### **ENGL7030 NINETEENTH CENTURY GOTHIC FICTION**

This course investigates the literary, cultural, and architectural meanings of the Gothic in nineteenth-century English literature, society, and politics, as well as considering the continued influence of the Gothic on the literary and cultural imagination today. Areas covered include Gothic politics, Gothic architecture, science and medicine, Pre-Raphaelitism, medievalism, the female Gothic, vampires, ghosts, and the 'Uncanny'. Skills developed include the critical reading of texts, and the ability to conduct academic discussion both orally and as a sustained argument in essay form.

Pre-requisite: None

### **ENGL7504 COURSE DESIGN FOR LANGUAGE LEARNING**

Approaches to course design and elements to consider when effectively planning English language learning courses will be demonstrated by an examination of the ways in which these components interact when designing, evaluating, and revising courses. Students will investigate course design processes and issues both firsthand and through discussions with practitioners and have opportunities via individual and group projects to apply course design principles to selected situations and settings.

Pre-requisite: None

### **ENGL7505 CURRENT TRENDS AND ISSUES IN LANGUAGE LEARNING**

This course will examine the newest trends as well as current issues in language learning. An investigation of the most recent underlying theories and hypotheses regarding language acquisition will be combined with research reports and "current practices" in areas such as: multimedia (CALL, internet, etc.), co-operative learning, multiple intelligences, the arts (e.g. music, art, dance, drama, literature), use of authentic materials and video, content-based and theme-based instruction, projects, critical thinking, process writing, reflection and metacognition, alternative assessment, and action research.

Pre-requisite: None

### **ENGL7508 MATERIALS DESIGN AND EVALUATION**

This course will provide an understanding of materials design principles, techniques, and issues while also examining the ways in which texts and materials can be used to guide, inform and enhance L2 learning. You are expected to become familiar with materials, sources and professional resources available while evaluating and designing materials for selected L2 learning situations and settings.

Pre-requisite: None

### **ENGL7509 PHONOLOGY**

This course constitutes an overview of phonological theory and analysis. While data from a range of languages will be discussed, however, the focus will be on English. The topics covered will include phonological rules, representations, underlying forms, derivations, and justification of phonological analyses. Attention will also be given to the interaction of phonology with morphology and syntax, syllable structure and stress. The course will emphasize practical skills with problem sets.

Pre-requisite: None

### **ENGL7998 PROJECT REPORT**

Under the supervision of an instructor, the student designs, executes, and reports on a substantial piece of research in the field of Literature OR Linguistics in English.

Pre-requisite: None

### **ENGL8013 SPECIAL TOPICS IN ENGLISH LINGUISTICS**

This course intends to guide students to work intensively on specific topics related to Linguistics/Translation Studies. It introduces current issues and advanced topics in the related fields and gets students involved in discussing and analyzing the key issues. Students are expected to read books and papers designated by the instructors, to conduct in-depth research on their own, and to present their research findings both in class and in international conferences and seminars.

Prerequisite: None

### **ENGL8014 SPECIAL TOPICS IN ENGLISH LITERARY STUDIES**

One or more courses may be offered as a Special Topic in English Literary Studies. These may include a continuation of the Practice of Scholarship course, focusing on the experience of submitting papers to an academic journal; a course on the history of the book and print culture that focuses on historical texts and the modes of their production; advanced topics on a specific area of English literary studies; or a special topic in Translation Studies.

Prerequisite: None

### **ENGL8016 ADVANCED RESEARCH WRITING**

This doctoral seminar course is designed to introduce PHD students to the making and presentation of scholarly works through reading, analyzing, and critique of published academic texts. As an advanced research writing course, one key component of the course will be on the construction, deconstruction, and evaluation of academic genres of writing, and the construction, negotiation, and co-construction of academic discourse and scholarly identity in the publication process. The course will hence foreground the need for students to develop a principled and critical way of evaluating and developing research articles, as well as to empirically investigate into the sophisticated means of academic identity construction in ERPP writing practices. Meanwhile, it will also require students to reflect on how the understandings and skills they gain from this course can be deployed in their own research and writing. A working paper intended for publication in an English academic journal is expected at the end of the class.

Pre-requisite: None

### **ENGL8090 PRACTICE OF SCHOLARSHIP I**

This course aims at helping PhD students to familiarise themselves with the academic practice in their early academic careers, with a focus on training on how to carry out research by way of performing research tasks. It is designed to help students develop their ability in academic writing, covering aspects essential for writing a research paper and the dissertation. Specifically, the course will invite students to make connections between the course readings and their own research projects and to apply what has been studied to their own research. Students will also have opportunities to participate/organize academic activities.

Pre-requisite: None

### **ENGL8999 DOCTORAL THESIS**

This is the course for PhD Dissertation. The objectives of this course are to promote good scholarship and to train students both intellectually and methodologically. Faculty working in the PhD program theoretically includes all academic staff of assistant professor and above, with research focuses on related areas. Supervisors are encouraged to contact and discuss regularly with their students.

Pre-requisite: None

### **HIST1000 HISTORY OF MACAO**

This course introduces students to a wide range of topics shaping Macao's global history from its sixteenth-century foundation as a Portuguese trading post in Ming China to its handover to the People's Republic of China (PRC) at the end of the twentieth century. It examines political, social, economic, and cultural dimensions of Macao's historical development vis-à-vis China, Portugal and other Western powers, retracing the main forces shaping European and Chinese

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modernity in tandem with the port city's emergence and later conversion into a colonial setting before its return to the PRC.

Pre-requisite: None

### **HIST1001 HISTORY OF CHINA I**

This survey course is designed to provide the student with an overview of Chinese history before modern times. It retraces the growth of Chinese civilization from its pre-historical genesis until the 17th century. Students will understand through readings, lectures, videos, and discussions the historical patterns of traditional China's evolution. This course will stress major events and the nature of the political, cultural, and social structures of ancient China.

Pre-requisite: None

### **HIST1002 HISTORY OF CHINA II**

This is a survey course on modern China from the 17th century to the establishment and decline of the Republic in the early 20th century. It traces the social disorders and transformations of modern China, covering such topics as the Ming-Qing dynastic wars, internal rebellions and foreign wars, the fall of the Qing Dynasty, the political disintegration and reintegration under the Republic, the attempts at reforms and modernization, and the rise and victory of Chinese Communism in 1949. This course explores the issues of imperialism, nationalism, revolution, communism, totalitarianism, and modernization.

Pre-requisite: None

### **HIST1003 HISTORY OF CHINA III**

This is a survey course on Communist China from its outset when the Chinese Communist Party (CCP) seized power and established the People's Republic of China in 1949 to the present. Emphasis will be on the current social, economic and cultural transformations brought about by the reforms since 1978. It investigates the political and economic policies of the CCP and its impacts during the Mao Era and the Post-Mao Era in general, and pays particular attention to the various social phenomena during the periods of the 1950s, the Cultural Revolution, and more recent reforms.

Pre-requisite: None

### **HIST1004 HISTORICAL THEORY AND PRACTICE**

This course focuses on the methods of historical study, the sources for doing historical research, and the craft of writing history. It will introduce students to a wide variety of methods and approaches to the study of the past, and to critically examine the issues of "doing" history. Classes will consist of lectures, discussions, as well as visits to libraries, museums, and occasional fieldtrips. On a more practical level, students will learn how to take class notes, prepare for examinations, compile bibliographies, and write short book reports and research papers.

Pre-requisite: None

### **HIST1005 HISTORY OF MODERN EAST ASIA**

This is a survey course that traces the foundation and development of modern East Asia since the 19th century. Through examining the major historical events, the transformations of political and economic institutions, and the social and cultural trends of China, Korea, and Japan from the early nineteenth century to the present, the course provides interpretations for many intriguing historical phenomena, such as feudalism, imperialism, warlordism, militarism, nationalism, and communism. This course will also compare and contrast the processes and methods involved in modernizing China, Korea, and Japan.

Pre-requisite: None

### **HIST1006 HISTORY OF THE UNITED STATES**

This is a survey of the American past from the post-Civil War era to the 1990s. Students will study about the growth and impact of industrialization and urbanization in the Gilded Age, the reform movements, such as progressivism, the New Deal, the Civil Rights movements, and the

Great Society. This course traces America's path to global involvement in the 20th century, including America's entanglement in the two world wars and the wars in Korea and Vietnam. The course aims to help students acquire a firm knowledge of major themes and characteristics of the United States and its people, and a better understanding of the present with a new perspective derived from the study of the past.

Pre-requisite: None

### **HIST1007 ART HISTORY OF ANCIENT CHINA**

The course is a historical survey of the visual arts in China from the pre-history period up to the Qing Dynasty. Students are introduced to a variety of artistic traditions and media, including ceramic, bronze, sculpture, and painting. Discussions cover significant issues of art history, with emphasis on the underlying philosophy, religion, history, and aesthetics of Chinese culture. The course is designed to meet two principal goals. The first is to develop skills of visual analysis and a critical vocabulary for discussing the media, technologies, styles, compositions and iconographies of Chinese art. The second is to foster an understanding of art--and visual culture in general--according to technological, social, economic, political, and religious contexts.

Pre-requisite: None

### **HIST1008 ART HISTORY OF MODERN CHINA**

This course is a survey of major artists and their works, as well as artistic trends in China from the late Qing Dynasty to the present. We will explore the ways in which Chinese artists of the 20th century have defined modernity and their tradition against the complex background of China's history. A key issue for modern Chinese art is the degree to which Chinese artists have chosen to adopt Western conventions and the extent to which they have rejected them. Equally legitimate positions have been taken by artists whose work actively opposes the legacy of the past and by those who pursue innovations based upon their particular understandings of the Chinese tradition. Through examining art works in different media, including oil painting, graphic design, woodblock prints, traditional ink and color painting, and recent installation and video art, along with theoretical writing, bibliographical and institutional data, and other documentary materials, we will investigate the most compelling of the multiple realities that Chinese artists have constructed for themselves.

Pre-requisite: None

### **HIST1009 HISTORICAL SOURCES, ARCHIVES, AND BIBLIOGRAPHY**

This course is designed to help students to become familiar with historical sources and bibliographies, especially archival materials, and to equip students with the knowledge and skills to manage, track down, and use all the sources relevant to historical materials. On a practical level, the various printed and electronic aids to finding and accessing primary materials will be introduced, and students will be shown how to combine these to retrieve all the sources efficiently and comprehensively.

Pre-requisite: None

### **HIST1010 DIGITAL RESOURCES IN THE HUMANITIES**

This course is designed to introduce students to a range of issues involved in the design, creation, management and use of electronic resources in the humanities. Topics include humanities resources on the digitized information, digital imaging, encoding and markup systems, text analysis, GIS, electronic dictionaries, scholarly electronic publishing in the humanities and interdisciplinary working.

Pre-requisite: None

### **HIST1011 CULTURAL HERITAGE STUDIES**

This course is designed to introduce students practical and theoretical approaches to the key issues and working practices in the field of cultural heritage. It is aimed at both those who wish to study cultural heritage as an academic subject, and those who might wish to obtain employment in the broad professions. The topics include studies of monuments, historic houses, cultural landscapes, cultural routes, intangible cultural heritage, and so forth.

Pre-requisite: None

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## **HIST1012 MUSEUM STUDIES**

This course is designed to introduce students to the history of museums, the major types of museums, their collections, and historical and contemporary issues and ethical challenges shaping the scope and role of museums. Topics discussed include the definition of museums, the history of collecting practices, and the origins and development of the public museum. The role of material culture in museum history, museum operations, and diversity and community engagement are also considered. Students are encouraged to make field trips, visiting subject-appropriate museum sites and reporting back to the class. Students will also contribute to discussion sessions on assigned topics and research the origins and mission of museums.

Pre-requisite: None

## **HIST2001 WESTERN CIVILIZATIONS I**

This course begins in ancient times, with the foundations of Western civilizations, crisis and recovery in the Middle Ages, and then follows the cultural, social and political progress of Europe through the Renaissance and Reformation, its overseas expansion in the early modern era, and the Age of Enlightenment. The course focuses on European thought and culture, as well as technological change and political competition that set the stage for the rise of the Western prominence in the modern world.

Pre-requisite: None

## **HIST2002 WESTERN CIVILIZATIONS II**

This course explores the Enlightenment ideas that gave rise to the French Revolution, as well as the technological foundations that led to the Industrial Revolution. It follows the movement of Europeans throughout the world in the 19th century as well as the cultural and social progress of Western societies. It examines the age of catastrophe punctuated by two world wars that produced the division of Europe, and ends with the economic and political reintegration of the European continent.

Pre-requisite: HIST2001 or permission of the instructor

## **HIST2003 HISTORY OF PORTUGAL AND ITS MARITIME EXPANSION**

This survey course introduces students to a wide range of historical issues about Portugal from world power in the Age of Discovery in the 15th and 16th centuries to the Portuguese Empire in the 19th century and up to the present. The course focuses on political, social, cultural, and economic developments, including the expansion and decline of the Portuguese Empire, the end of monarchy and the development of the Republic, and Portugal's integration into Europe and its global involvement.

Pre-requisite: None

## **HIST2004 READINGS OF CHINESE CLASSICAL DOCUMENTS AND HISTORICAL MATERIALS**

This course consists of two parts. The first part introduces students to the significance of historical source materials, the classification of ancient Chinese historical materials, and the means of examining and utilizing historical source materials. The second part teaches students how to read and find historical source materials. Through case studies, students will learn how to discover and understand historical source materials and develop their capability of examining, analyzing, and using historical source materials, while also enhancing their reading ability of Chinese classics.

Pre-requisite: None

## **HIST2006 MACAO IN WORLD HISTORY**

This is an in-depth study of Macao and its role in World History. Topics to be discussed will include the arrival and establishment of the Portuguese and Spanish in Asia; the establishment of Macao as a hub for East-West interchanges; Jesuit activities and Macao as a trading entrepôt in late-Ming; conflicts between Catholics and Protestants in Asia and the changing nature of trading networks; Macao as the gateway to the China trade; the rise of a "coolie trade;" Macao under the umbrella of Hong Kong; Macao as a refuge in WWII; and the emergence of



the Gaming Industry in the late 20th century. Special attention will be given to Macao's responses to the changing environment in East Asia and how it was able to redefine itself in the face of competition and adversity.

Pre-requisite: HIST1000 or the permission of the instructor

### **HIST2007 WORLDVIEWS AND MAPPING IN HISTORY**

Starting from map analysis, students will explore the different worldviews of medieval, early modern, and modern times from different perspectives. The focus will be on the connections between continents and peoples, with a large part of the course devoted to the cultural exchanges between Europe and Asia, one of the history department's main areas of research. We will actively use maps to explore how peoples of the past understood or experienced the world and reflect on the connections between cartography and power relations, intercultural contact, modern historiography and contemporary society.

Pre-requisite: None

### **HIST2008 HISTORY OF SOUTHEAST ASIA**

This course is a survey of Southeast Asian history from 1750 to the present. The course will highlight the development of a modern Southeast Asian civilization during a period of great difficulty and intensity, when Southeast Asians struggled to maintain independence in the face of increasing influence and pressure from outside. Topics to be examined will include colonialism, nationalism, the formation of new states and societies, efforts at regionalism, and ethnic and religious tensions.

Pre-requisite: One 1000-level History course or permission of the instructor

### **HIST2010 HISTORY OF ASIAN ARTS**

This course is an introductory of major artistic and cultural trends in the histories of Asia, mainly India and Japan. By examining in depth a number of the most representative works of art from each tradition, we will not only discuss the important developments in style and aesthetics in each region, but also explore the mutual influences that motivated the creation of these works of art. Contextualization of the visual culture will be the primary methodological approach of this class. We will study the works of arts within the cultural contexts—the political, religious, social and economic spheres that helped define the direction of the visual arts in Asia.

Pre-requisite: None

### **HIST2011 HISTORY OF WESTERN ARTS**

This course is an introductory survey of major artists and their works, as well as artistic trends in the history of Western art. Students will explore works of painting, sculpture, and architecture in Europe and the Near East from the Stone Age, through medieval periods to the modern time. Lectures focus on the historical outlines of the major art movements. We will also focus on developing students' critical faculties – the ability to apprehend and comprehend a work of art.

Pre-requisite: None

### **HIST2012 CHINESE CULTURE HISTORY**

This is an introductory course to history of Chinese culture. This course will explore Chinese customs, art, literature, festivals, folklore, religious activities, architecture, medicine, everyday life, and so forth. The course has three major goals. First, it provides students with a basic knowledge of Chinese cultural practices; second, it introduces students to some of the current scholarship of Chinese culture and consumption; and third, it offers a cultural background for students to have a better understanding of today's China, Chinese people, their thought, and their society.

Pre-requisite: None

### **HIST2013 HISTORY OF JAPAN**

This course on Japan covers the Tokugawa to the postwar period. It examines the profound political, economic, and social transformation of Japan before and after Perry's Mission, the Meiji Restoration, the rise and fall of the Imperial Japan, and the development of postwar Japan.

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It focuses on the issues of modernization, imperialism, militarism, democracy, and economic success.

Pre-requisite: None

### **HIST2014 POLITICAL SYSTEM OF ANCIENT CHINA**

The course is designed for students to understand the history of the political system in ancient China, its relationship with social development, and the rules of its origin, development, and transformation and get some basic historiographical training through lectures, historiographical reading instructions, class discussion and assignments. The course will expand students' visions and enable them reach conclusion about the gains and loss in the development of political civilization through a comparison study of the history of the political system in ancient China and the west in a global perspective. The course will help students master the basic requirement and cultivate their interest in academic research. It will build a solid foundation for students who aspire to get further education and training in ancient Chinese history research.

Pre-requisite: None

### **HIST2017 THE BRITISH EMPIRE AND THE WORLD**

The world we inhabit today was, in no small sense, created by the British Empire. Starting in the eighteenth century Great Britain underwent a dramatic transformation, from small island kingdom to pre-eminent global power, formally ruling a quarter of the world's land and population and informally exercising a wider influence still. Yet after World War II, the British Empire experienced a rapid decline. How can these developments be explained? How were they experienced by the British themselves, and by the peoples who fell under their sway? Such questions are at the heart of this course.

Pre-requisite: None

### **HIST2018 MEDICAL IDENTITIES IN EAST AND WEST**

This course is a fascinating exercise in which we will explore, on the one hand, the development of medical ideas, concepts and thought as well as shifting patterns of medical practices and therapeutic treatments in global history. On the other hand, we will focus on the transmissions, interactions and exchanges of healing traditions, medical theories, pharmaceutical knowledge and related religious worldviews, and this over a space stretching from Europe, Africa, the Americas, and across Asia, from China and India to Southeast and West Asia. Taking as a case study the construction of medical identities in East and West, we will reflect on the close relationship between medical thought and the prevailing political, social, economic and cultural manifolds that shaped the condition humane. Likewise, we will unfold the all-encompassing and cross-cultural parallelisms showing that civilizations are not discrete and unalterable units but have been subjected time and again to external influences and impacts. Following this interdisciplinary and comparative theoretical framework, with due attention paid to primary sources in Eastern and Western languages, this course aims at promoting an awareness of the historical forces that have molded, and continue to shape, medicine in the world, thus helping us to reach a deeper understanding of the origin and developments that define the world's modernities.

Pre-requisite: None

### **HIST2024 HISTORY OF FOREIGN RELATIONSHIPS IN THE QING DYNASTY**

The course aims to cover three main subjects: the traditional Chinese diplomatic systems and ideas, the collapse and transformation of traditional diplomacy and the establishment of modern diplomacy. This course will first investigate how traditional Chinese regime understood and dealt with foreign relations by setting Qing dynasty as an example. It will then come to a discussion of the collapse of traditional diplomacy and the establishment of modern diplomacy. Besides, it will also have a comprehensive observation of the frontier crisis such as Korea and Vietnam resulted from the western colonialization and Chinese domestic transformation.

Pre-requisite: None

### **HIST3000 ASIAN MARITIME HISTORY**

Maritime history involves more than trade. This course explores the political, economic, social, and criminal (piracy and smuggling) interactions between China, Southeast Asia, and India from the 16th century to the present day. Students will study about pan-Asian trade and tribute interactions, and retrace the migrations of different ethnic groups as they interacted across maritime Asia. Special attention will be paid to the cultural diversities of each group and the reasons behind their migrations, exchanges, and encounters.

Pre-requisite: One 1000- or 2000-level History course or permission of the instructor

### **HIST3003 HISTORY OF CHINESE PAINTING**

This is a survey of Chinese painting history from the pre-Han period to the Qing dynasty. This course examines the most important artists and their representative masterpieces of painting, and the major artistic movements of each dynastic period to study essences of Chinese art. We particularly stress important development in style and subject matter. As appropriate, issues in style and subject matter will be related to contemporary development in philosophy, religion, government, society, and culture.

Pre-requisite: None

### **HIST3004 CHINESE BUDDHIST ART**

In this course we will explore the world of Buddhist art in China, from its transmission from India and the Central Asia to its transformation into an integrated part of Chinese culture in general. And by the end of this semester, we will also explore the indigenous temples in Macao. We will examine this multifaceted tradition as a profound expression of both artistic and religious values. We are dealing with images and architectures which, first of all, are intended to hold religious meaning and to serve Buddhist ritual, edification, salvation, and enlightenment. It is only by discerning the relationships between their "religious" and the "aesthetic functions"—how aesthetic practice is informed by and at the same gives form to religious practices—that we can begin to understand the spiritual efficacy and performative force of these creations.

The course is designed to meet two principal goals. The first is to develop skills of visual analysis and a critical vocabulary for discussing the iconographies and styles of Chinese Buddhist art. The second is to foster an understanding of Buddhist images according to their physical, social, and especially religious contexts.

Pre-requisite: None

### **HIST3009 MACAO MEMORY AND ARCHIVES**

This course will focus on the subjects of Macao Archives, as well as Macao Memory. In particular, it consists of the topics on exploring of the Macao history and cultural development in relations with documentary heritages, and the sciences of management and integrating of documentary resources in the new information and communication technologies, such as the worldwide project Memory Programme. Thus, the course will introduce the basic concept of documentation development, information management, professional ethics, government archives management, etc., with the theory and practical knowledge in the ever-changing environment of electronic and Internet world.

Pre-requisite: HSTB1000 History of Macao

### **HIST3010 MILITARY HISTORY OF MODERN CHINA**

This course is to discuss the evolution of military force in China from the early Qing to the Korean War, including the Eight Banners, Green Standard, Militia, New Army, and People's Liberation Army. The course will introduce the major fights, battles, and wars, such as the Opium Wars, Taiping Rebellion, Sino-French War, Sino-Japanese War, War of Resistance against Japanese, and Civil War. The course will also analyze the military ideas, tactics, and strategies of major military leaders such as Li Xiucheng, Zeng Guofan, and Mao Zedong. The instructor will guide students to read some important works on the subject.

Pre-requisite: None

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**HIST3013 CHINESE SOCIO-ECONOMIC HISTORY**

This course aims to provide a basic understanding of social and economic history of China from early times to the present. Topics include (but not confined with) social institutions such as clan, lineage, huiguan, and etc, trade, money, banking, imperial economic policies, and so on.

Pre-requisite: None

**HIST3014 HISTORY OF CATHOLICISM IN CHINA**

This course aims to provide a basic understanding of social and economic history of China from early times to the present. Topics include (but not confined with) social institutions such as clan, lineage, huiguan, and etc, trade, money, banking, imperial economic policies, and so on.

Pre-requisite: None

**HIST3015 JESUITS IN MING-QING CHINA**

This course aims to retrace the path of the Jesuit missionaries who sailed from Portugal to China, believing that they could convert China to Christianity. Besides describing the role of Jesuits as cultural emissaries, this course will examine how these priests, in the first concerted European effort to engage with Chinese language and thought, translated Roman Catholicism into the Chinese cultural frame until the proscription of Christianity in China in 1724. In the retelling, this course will take students across continents and centuries to reveal the deep political, cultural, scientific, linguistic, and religious complexities of a true early engagement between East and West.

Pre-requisite: None

**HIST3021 SPECIAL TOPICS IN HISTORY**

This course number is reserved for any new topic in the study of history which is meant to provide students further chance to encounter more updated development and more diverse aspects of the field.

Pre-requisite: None

**HIST4001/4002 ADVANCED HISTORY WRITING I/II**

These are capstone courses, to be taken in sequence, designed to help majors pursue an individual research project under the supervision of a faculty of the History Department. The purpose of course meetings is to give the students a chance to learn the mechanics and methods of senior research and to share with classmates the work process and experience, excitement and frustration in historical writing and research. The courses, which aim to enhance the seniors' critical thinking, oral skills and capability of examining and interpreting historic events, will explore the methods of collecting, sorting, and analyzing source materials and collectively deal with common problems rising from research. The end result of their research will be a 25-50-page essay based on primary sources and presented to the public. The seniors in the class will also need to prepare a Portfolio that summarizes their college experience as a History Major.

Pre-requisites: None

**HIST4003 RESEARCH PROJECT**

This Research Project allows the history senior to gain research experience in one of the areas of specialization of the department for one semester and under close supervision of one faculty member. At the completion of the research project, final assessment is earned by writing a research report. A research report is different from an academic thesis in that it does not require extensive literature review and theoretical framework, and it is shorter.

Pre-requisites: None

**HIST7000 APPROACHES TO GLOBAL HISTORY**

This seminar not only reviews many most recent literatures on global history, but also aims to introduce paradigms, themes/topics, periodization, methods, perspectives, challenges and problems, and cases studies in global history.

Pre-requisite: None

### **HIST7001 HISTORY OF MODERN CHINESE POLITICAL SYSTEM**

The course will discuss the various elements of political change in China. The progress of political reform in modern China through a historical perspective will be explained.

Pre-requisite: None

### **HIST7002 INTRODUCTION TO STUDY ON MODERN CHINESE HISTORY**

This course requires students to read different kinds of historical documents. Students will be divided into groups to complete the reading and report. After the report, all participants will discuss the documents. The method of analysis.

Pre-requisite: None

### **HIST7003 PERSPECTIVES IN MACAO HISTORY**

This course aims to equip students with the key knowledge and concepts deployed in the writing of Macao history. It aims to ground students' knowledge of Macao as a research area by engaging them with wider historical themes and perspectives, including but not limited to colonial history, Chinese history, social history, cultural studies, global connections, postcolonial studies and heritage studies. Students will be familiarized with major theoretical perspectives and inter-disciplinary approaches useful in the study and research of Macao history. They will achieve a critical reflection of Macao history as an area study linked to local develop.

Pre-requisite: None

### **HIST7004 INDEPENDENT STUDIES IN HISTORY**

This course is designed for individual professor to meet specific needs of students for their own research projects. Topics are usually within the three pillar fields set up in the History Department, namely: Chinese history, Macao history, and history of East-West interactions.

Pre-requisite: None

### **HIST7754 BUDDHIST SCULPTURES AND PAINTINGS**

This course will offer interpretation of foundational Buddhist scriptures and paintings in their historical, literary, and philosophical contexts to trace the development of Indian Buddhism as well as its process of cultural accommodations in East Asia.

Pre-requisite: None

### **HIST7757 LATE IMPERIAL CHINA**

This course covers the Ming and Qing Dynasties, roughly the fifteenth through nineteenth centuries. We will focus on the interplay between inner Asian "barbarians" and the Chinese, as well as on the economic and political flourishing of the 18th century before turning to the turmoil of the Opium War and Taiping Rebellion eras between 1839 and 1865. We will also examine the difficulties that China faced in reform and modernization in the face of Western and Japanese imperialism at the end of the 19th century. We end with the Boxer Uprising and 1911 Revolution, which brought an end to China's last imperial dynasty.

Pre-requisite: Three Chinese History courses or permission of instructor

### **HIST7762 LAW AND SOCIETY IN LATE IMPERIAL CHINA**

This course is a survey of Chinese legal history that focuses on late imperial law and society in the Ming and Qing dynasties. The course will deal with the development of the Chinese legal tradition in the context of Confucian, Legalist and Taoist philosophy. Emphasis will be on the "Confucianization" of law. The Confucian legal tradition is at the core of the legal cultures not only of China, but also of Japan, Korea, and much of Southeast Asia. In this course we will examine the ways in which a legal system creates and reflects a society's structures and values in a mutually interactive process. Readings are drawn from Chinese codes, cases, and "detective novels."

Pre-requisite: None

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**HIST7765      BUDDHIST ART: THEORY AND HISTORY**

A detailed presentation of Buddhist theories and practice methodologies that resulted in the various schools of Buddhist art.

Pre-requisite: Art History of Ancient China, Art History of Modern China, Chinese Painting and Calligraphy or permission of instructor

**HIST7768      EAST-WEST INTERACTIONS AND EXCHANGES**

This course examines the complex nature of the relationships and encounters between the imaginary and the real 'East' and 'West', in the present and recent past. It explores the interactions among cultural, social, economic and religious aspects of international affairs, particularly the changes at the cultural and religious levels which have subtly altered the international relationships of the East-West. It will also re-examine the concept of interactions and exchanges both within and beyond traditional theoretical mappings such as post colonialism and post-modernism. Its focus is primarily upon the interactions between 'East Asia' and 'the West' over the past three hundred years and the art and religious world with awareness of cultural fluidity.

Pre-requisite: Permission of instructor

**HIST7772      HISTORIOGRAPHY OF SOUTHEAST ASIA**

This course is a graduate seminar on Southeast Asian history. Its aim is to survey a selection of major works published on selected topics in Southeast Asian history since approximately 1960, and in doing so, to assess the changing structure of the field. Topics to be examined will include but not limited to religion and belief systems, trade, the nature of polities, family and gender, and colonialism and post-colonialism.

Pre-requisite: None

**HIST7773      STUDIES IN IMPERIALISM I**

This course provides students with an understanding of key developments that contributed to the rise of imperialism among European nations during the long nineteenth century. Students will be introduced to some of the most important thinkers and concepts in the writing of imperial history in order to explain how European imperialism stimulated economic growth and modernization in some colonies but severely hindered development in others. Throughout the course students will be encouraged to examine the work of contemporary theorists and scholars of Empire such as J.R. Seeley, J.A. Hobson and John Stuart Mill and how their writings have been interpreted and critiqued by modern-day imperial historians such as John Gallagher and Ronald Robinson, P.J. Cain and Anthony Hopkins and C.A. Bayly.

Pre-requisite: None

**HIST7774      STUDIES IN IMPERIALISM II**

This course provides students with an introduction to some the principal challenges and difficulties faced by European imperial powers during the 20th century. Students will have the opportunity to examine the impact of the First and Second World War as well as the rise of protest/nationalist movements on imperial structures in considering the factors leading to decolonization later in the century. In addition, students will be introduced to some of most significant twentieth-century writers on colonialism, anti-colonialism and postcolonial theory, including the works of Franz Fanon, Edward Said and Gayatri Charakravorty Spivak. Through an engagement with historical and literary texts, students will consider the degree to which many imperial structures survived formal processes of decolonization and continue to shape the world in which we live in today.

Pre-requisite: None

**HIST7780      ADVANCED HISTORICAL THEORY AND PRACTICE**

This course is required for all incoming M.A. students in History. It seeks to introduce students to the varieties of historical theories and research methods. Students will investigate theoretical models and intellectual traditions, which will be presented in terms of a series of debates between competing visions and interpretive perspectives. Guest speakers from within and

without the University of Macao will be an important ongoing part of the course. Students will write several papers on scholarship, theoretical models, historiographical conventions, and so on. This course is designed to prepare graduate students for the more advanced Reading and Writing Seminars.

Pre-requisite: Historical Theory and Practice or the equivalent

### **HIST7781 ADVANCED READING SEMINAR**

This is an advanced graduate-level course on a specific topic in the areas of Chinese, Asian, Western, or Comparative/World History. The course involves an in-depth analysis of primary sources and an evaluation of the secondary literature on the topic of the seminar. The focus of this course will be on the development of a bibliography and the reading and discussion of the secondary literature on specific assigned topics.

Pre-requisite: Advanced Historical Theory and Practice or permission of the instructor

### **HIST7782 ADVANCED WRITING SEMINAR**

This is an advanced graduate-level course that follows-up on the Reading Seminar. It will focus on a specific topic in Chinese, Asian, Western, or Comparative/World History. Students will have to write an extensive research paper based on primary sources. As a Pre-requisite students will have to have taken the corresponding Reading Seminar.

Pre-requisite: Advanced Reading Seminar or permission of the instructor

### **HIST7783 SPECIAL TOPICS IN HISTORY**

There are special topical courses taught by visiting scholars or experimentally by FAH faculty.

Pre-requisite: None

### **HIST7784 SPECIAL TOPICS IN HISTORY II**

There are special topical courses taught by visiting scholars or experimentally by FAH faculty.

Pre-requisite: None

### **HIST7990 THESIS**

This course is designed to train students for their thesis writing. Major schools, theories, and approaches in historical studies would be highlighted, style and format would be introduced, thesis proposals or research papers by students would be shared and discussed.

Pre-requisite: None

### **HIST8802 ADVANCED SPECIAL TOPICS IN HISTORY**

The course seeks to involve doctoral students of history with a range of historical topics. Students will read important works done by influential historians, and engage in scholarly debates pertaining relevant topics in Chinese history. Students will also engage in scholarship of academic writing in history and in preparation of their dissertation writing.

Pre-requisite: None

### **HIST8803 INDEPENDENT STUDY ON ACADEMIC WRITING IN HISTORY**

The course seeks to involve doctoral students of history with a range of historical topics. Students will read important works done by influential historians, and engage in scholarly debates pertaining relevant topics in Chinese history. Students will also engage in scholarship of academic writing in history and in preparation of their dissertation writing.

Pre-requisite: None

### **HIST8804 INDEPENDENT STUDY ON HISTORIOGRAPHY**

This course provides advanced grounding in the methods and concerns of the modern historical discipline. Students are exposed to some of the major intellectual trends and traditions that have informed how the historians of today pursue their craft. The immediate purpose of this training is to help students begin to formulate and research their dissertation topic.

Pre-requisite: None

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**HIST8805 INDEPENDENT STUDY ON HISTORY**

This course allows a PhD student to work on a topic of special interest, supervised by a professor in the department. The topic should be chosen in consultation with a particular professor and with the aim of providing necessary background for researching and writing the dissertation.

Pre-requisite: None

**HIST8861 ADVANCED READING/HISTORIOGRAPHY SEMINAR**

This is a joint course for PhD students, which allows master students to enroll in as well but they will get substantially less course assignments and subject to much lower academic requirement in terms of volumes of readings and length and depth of their writing and analysis. All PhD students will have to take qualifying exam in the area this course covered in addition to passing this course. In this course, students will learn about the historiography of the traditional and modern West, mainly Western historians' approaches to and methods in studying the human past, so that they would be equipped with the updated historiography and enabled to find a good topic and appropriate research method for their master and doctoral thesis, while well prepared for the sequent course for advanced writing in the next semester. Another objective of this course is to let students get familiar with the first-class research and the existing literature in the field of modern Chinese history, to see how the approach of a historian could fundamentally affect his/her research and writing.

Pre-requisite: None

**HIST8999 DOCTORAL THESIS**

The course constitutes the last stage of the Doctoral program. With the guide of supervisors, students are expected to define an under-research topic, collect and problematize all available sources to formalize a research question, design a solid empirical study and make a theoretically oriented conclusion, or provide seminal or essentially revised interpretations. A doctoral thesis is expected to make a significant contribution to the selected (sub) field, theme, or topic.

Pre-requisite: None

**JAPN1000 PRACTICAL JAPANESE I**

This course aims to develop Japanese language ability in daily conversation, reading and writing. At the same time, it also introduces Japanese Studies, including basic cultural ideas that are needed in the acquisition of the language. At the end of this course, students will be able to acquire very basic conversation skills of Japanese.

Pre-requisite: JAPN1001 or permission of instructor

**JAPN1001 JAPANESE GRAMMAR I**

This course is designed for students who are majoring in Japanese language and have little or no knowledge of the Japanese language. It focuses on learning foundational grammar for simple sentence building. The objective of this course is to develop reading and writing skills for functional literacy at the elementary level.

Pre-requisite: JAPN1000

**JAPN1002 PRACTICAL JAPANESE II**

This course is the continuation of Practical Japanese I and also aims at the development of Japanese language ability in daily conversation, reading and writing. At the same time, it also introduces Japanese Studies, including basic cultural ideas that are needed in the acquisition of the language. At the end of this course, students will be able to acquire basic conversation skills of Japanese.

Pre-requisite: JAPN1000 and JAPN1001 or with permission of instructor and confirmation of proficiency by test

**JAPN1003 JAPANESE GRAMMAR II**

This course is the continuation of JAPN1001 Japanese Grammar I. It focuses on learning



foundational grammar for complex sentence building. The objective of this course is to develop reading and writing skills for functional literacy at the pre-intermediate level.

Pre-requisite: JAPN1001 or permission of instructor

### **JAPN1004 ELEMENTARY JAPANESE I (ELECTIVE COURSE)**

This course will cover very basic Japanese language. This course also includes basic reading and writing. At the end of this course, students can conduct very basic daily conversation in Japanese.

Pre-requisite: None

### **JAPN1005 ELEMENTARY JAPANESE II (ELECTIVE COURSE)**

This course is the continuation of Elementary Japanese I and includes basic reading and writing. At the end of this course, Students can function in daily conversations at the basic level.

Pre-requisite: JAPN1004 or permission of instructor

### **JAPN2000 PRACTICAL JAPANESE III**

This course provides training in the comprehension and the use of conversational Japanese by emphasizing oral communication skills. Students will be provided different tasks focused on practical daily conversational communication in order to help build confidence in speaking Japanese. At the end of this course, students can acquire basic communication skills for everyday situations and campus life.

Pre-requisite: JAPN1002 and JAPN1003 or permission of instructor

### **JAPN2001 INTEGRATED JAPANESE I**

This course is oriented to intermediate practical Japanese grammar. Students will learn intermediate level sentence patterns and grammar that serve as the foundation for learning the language. Students will put this knowledge into practical use in situations from actual Japanese daily life. At the end of this course, students can recognize and use intermediate Japanese grammar.

Pre-requisite: JAPN1003 or permission of instructor

### **JAPN2002 JAPANESE READING I**

This is a reading course for students who have studied foundational Japanese grammar. The objective of this course is to train and develop reading skills through reading articles of different topics from various media and sources. This course focuses on practicing basic reading skills including skimming, scanning, guessing vocabulary from context, answering basic content questions about text and making inferences.

Pre-requisite: JAPN1003 or with permission of instructor and confirmation of proficiency by test

### **JAPN2003 JAPANESE COMPOSITION I**

This course aims to provide instruction and intensive practice in Japanese writing skills. Students will be taught to write compositions, and then evaluate and revise their work. At the end of this course, students will be able to compose intermediate level Japanese sentences.

Pre-requisite: JAPN1003 or with permission of instructor and confirmation of proficiency by test

### **JAPN2004 PRACTICAL JAPANESE IV**

This is the continuation of Practical Japanese III and provides training in the comprehension and the expression of conversational Japanese. The objective of this course is to improve Japanese communication skills in order to appropriately express one's thoughts through group discussions and presentations. At the end of this course, students can exchange opinions on a wide variety of topics.

Pre-requisite: JAPN2000 or permission of instructor

### **JAPN2005 INTEGRATED JAPANESE II**

This is the continuation of Japanese Grammar III. This course is oriented to intermediate practical Japanese grammar. Students will learn intermediate level sentence patterns and

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grammar that serve as the foundation for learning the language. Students will put this knowledge into practical use in situations from actual Japanese daily life. At the end of this course, students will be able to recognize intermediate Japanese grammar.

Pre-requisite: JAPN2001 or permission of instructor

#### **JAPN2006 JAPANESE READING II**

This course is the continuation of JAPN2002 Japanese Reading I. The objective of this course is to improve reading skills through reading articles of different topics from various media and sources. This course focuses on developing reading skills to comprehend more complex texts and introducing academic reading skills.

Pre-requisite: JAPN2002 or permission of instructor

#### **JAPN2007 JAPANESE COMPOSITION II**

This course is a continuation of Japanese Composition I and also aims to provide instruction and intensive practice in Japanese writing skills. Students will be taught to write compositions and reports, and then evaluate and revise their work. At the end of this course, students can compose intermediate level Japanese sentences.

Pre-requisite: JAPN2003 or permission of instructor

#### **JAPN2008 ELEMENTARY JAPANESE III (ELECTIVE COURSE)**

This course is a continuation of Elementary Japanese II. It also includes reading and writing. At the end of this course, students will have a basic knowledge of Japanese and will be able to conduct daily conversation at the basic level with more advanced vocabulary and syntax.

Pre-requisite: JAPN1005 or permission of instructor

#### **JAPN2009 ELEMENTARY JAPANESE IV (ELECTIVE COURSE)**

This course is a continuation of Elementary Japanese III. It includes reading and writing skills. At the end of this course, student can converse basic to intermediate daily conversation in Japanese.

Pre-requisite: JAPN2008 or permission of instructor

#### **JAPN3000 BUSINESS JAPANESE I**

This is a business Japanese course for students who are majoring in Japanese language. In this course, students will learn a good balance between the Japanese etiquette necessary for effective communication, and practical business Japanese expressions. At the end of this course, student will be able to carry on business conversations at the intermediate level.

Pre-requisite: JAPN2004 or permission of instructor

#### **JAPN3002 JAPANESE RESEARCH METHOD I**

This course develops academic Japanese language skills through a series of lectures on basic research methodology and the analysis of research papers on topics relevant to contemporary Japanese society and culture. By the end of the course, students will be able to write research proposals and academic-level papers in Japanese.

Pre-requisite: JAPN2004 or permission of instructor

#### **JAPN3003 SELECTED READINGS IN MODERN JAPANESE I**

This course is designed to expose students to contemporary social topics in Japan through electronic and print media. Students will be updated with the ever-changing issues in the Japanese society, such as new words in the language, the change of Japanese political structure and society.

Pre-requisite: JAPN2006 or permission of instructor

#### **JAPN3004 BUSINESS JAPANESE II**

This course is the continuation of JAPN3000 Business Japanese I. In this course, Japanese conversation practice in actual business settings will be conducted to help students acquire communication strategies for better interaction with Japanese business people. This course

also provides training in writing business emails in Japanese, which is necessary for formal communications in various business situations. At the end of this course, student will be able to carry on business conversations at the upper intermediate level.

Pre-requisite: JAPN3000 or permission of instructor

### **JAPN3005 JAPANESE RESEARCH METHOD II**

This is the continuation of Japanese Research Method I. This course develops academic Japanese language skills through a series of lectures on basic research methodology and the analysis of research papers on topics relevant to contemporary Japanese society and culture. By the end of the course, students will be able to write research proposals and academic-level papers in Japanese.

Pre-requisite: JAPN3002 or permission of instructor

### **JAPN3006 SELECTED READINGS IN MODERN JAPANESE II**

This course is the continuation of Selected Readings in Modern Japanese I and is designed to expose students to contemporary social topics in Japan through electronic and print media. Students will be updated with the ever-changing issues in the Japanese society, such as new words in the language, the change of Japanese political structure and society.

Pre-requisite: JAPN3003 or permission of instructor

### **JAPN3007 PRACTICAL JAPANESE V**

This course focuses on listening comprehension and the use of conversational Japanese. The course emphasizes oral communication skills. Students will be provided different tasks focused on practical daily communication in order to help build confidence in speaking Japanese.

Pre-requisite: JAPN2004 or permission of instructor

### **JAPN3008 PRACTICAL JAPANESE VI**

This course is the continuation of Practical Japanese V and focuses on listening comprehension and the use of conversational Japanese. The course emphasizes oral communication skills. Students will be provided different tasks focused on practical daily communication in order to help build confidence in speaking Japanese.

Pre-requisite: JAPN3007 or permission of instructor

### **JAPN3009 TRANSLATION AND INTERPRETATION I**

This course introduces basic translation and interpretation skills on translating and interpreting Japanese into Chinese. Based on analyses of the syntactic and lexical similarities and differences between the two languages, students will practise multiple skills in this course. The objective of this course is to develop students' ability of translating literary works in various genres by employing the techniques learned, while improving the ability of interpretation.

Pre-requisite: JAPN2006 or permission of instructor

### **JAPN3010 TRANSLATION AND INTERPRETATION II**

This course is the continuation of Translation and Interpretation I. By analysing the syntactic and lexical structure of the two languages, it introduces basic translation and interpretation skills on translating Chinese into Japanese. The objective of this course is to develop students' ability of translating and interpreting Chinese into Japanese by employing the techniques learned.

Pre-requisite: JAPN3009 or permission of instructor

### **JAPN3011/3012 SPECIAL TOPICS ON JAPAN I/II**

Special courses on various topics to be developed by current faculty and visiting scholars.

The course is designed to cover one topic from the areas concerning Japan, including Japanese language, literature, history, culture, philosophy, behavior, communication, journalism, economics, legal systems, political sciences, etc.

Pre-requisite: Permission of instructor

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**JAPN3015 INTERMEDIATE JAPANESE I (ELECTIVE COURSE)**

This course is the intermediate Japanese language course. It covers reading and writing skills and also provides cultural information about Japan. At the end of this course, students can conduct daily conversation at the intermediate level.

Pre-requisite: JAPN2009 or permission of instructor

**JAPN3016 INTERMEDIATE JAPANESE II (ELECTIVE COURSE)**

This course is the continuation of Intermediate Japanese I. It also covers reading and writing skills and provides cultural information about Japan. At the end of this course, students can conduct daily conversation at intermediate level with more advanced vocabulary and syntax.

Pre-requisite: JAPN3015 or permission of instructor

**JAPN4015 JAPANESE LITERATURE I**

This course introduces traditional Japanese literature, including poetry, novels and dramas, from the inception to 1868. At the end of the course, students will be familiar with selected Japanese writers and their works.

Pre-requisite: JAPN3006 or permission of instructor

**JAPN4016 JAPANESE LITERATURE II**

This is the continuation of Japanese Literature I. Modern and Contemporary Japanese literature will be introduced. At the end of the course, students will have read excerpts of some famous writings and be familiar with current themes in Japanese literature.

Pre-requisite: JAPN4015 or permission of instructor

**JAPN4018/4019 SPECIAL TOPICS IN HUMANITIES I/II**

Special courses on various topics to be developed by current faculty and visiting scholars. The course is designed to cover one topic from the areas of humanities taught in Japanese language, including literature, language studies and methodology, philosophy, behavior science, communication, journalism, history, culture, law and political economy etc.

Pre-requisite: Permission of instructor

**JAPN4024/4025 SPECIAL TOPICS IN SOCIAL SCIENCES I/II**

Special courses on various topics to be developed by current faculty and visiting scholars. The course is designed to cover one topic from the areas of social sciences taught in Japanese language, such as history, politics and law, education, journalism, business administration, international relation, sociology, psychology, economics and management, political sciences etc.

Pre-requisite: Permission of instructor

**JAPN4030 ADVANCED PRACTICAL JAPANESE I**

This course emphasizes oral and written communication skills. Students will be provided different tasks focused on practical daily communication in order to help build confidence in speaking and writing Japanese.

Pre-requisite: None

**JAPN4031 ADVANCED PRACTICAL JAPANESE II**

This course is the continuation of Advanced Practical Japanese I and emphasizes oral and written communication skills. Students will be provided different tasks focused on practical daily communication in order to help build confidence in speaking and writing Japanese.

Pre-requisite: None

**JAPN4032 JAPANESE SOCIETY AND CULTURE I**

This course is to expose students to various areas of Japanese society. The content will be updated with the ever-changing issues in Japanese society and culture, such as new words in the language, new fashion, social events in daily life, the change of Japanese political structure, etc.

Pre-requisite: None

### **JAPN4033 JAPANESE SOCIETY AND CULTURE II**

This course is the continuation of Japan Society and Culture I and is to expose students to various areas of Japanese society. The content will be updated with the ever-changing issues in Japanese society and culture, such as new words in the language, new fashion, social events in daily life, the change of Japanese political structure, etc.

Pre-requisite: None

### **JAPN4034 JAPANESE LINGUISTICS I**

This course aims to provide a solid foundation in the field of linguistics. Through a combination of theoretical concepts and practical examples, students will gain a deeper understanding of the structure of the Japanese language. This course begins by introducing the fundamental concepts in linguistics and then proceeds to topics on sounds of language, writing systems and word structure.

Pre-requisite: None

### **JAPN4035 JAPANESE LINGUISTICS II**

This course aims to provide a solid foundation in the field of linguistics. Through a combination of theoretical concepts and practical examples, students will gain a deeper understanding of the structure of the Japanese language. This course introduces topics on phrase and sentence structure, meaning of language as well as language variation and language change.

Pre-requisite: None

### **PHIL1000 INTRODUCTION TO WESTERN PHILOSOPHY**

This course attempts to provide an encompassing introduction to philosophy by looking at some of the fundamental problems philosophers discuss in a number of different areas of Western philosophy, such as general metaphysics, ontology, epistemology, philosophy of mind, philosophy of religion, and ethics. The classic materials are selected to provide a basis for understanding some of the central debates within each of these fields.

Pre-requisite: None

### **PHIL1001 INTRODUCTION TO ASIAN PHILOSOPHY**

Asia is an area not only rich in culture, but serves as the cradle of various major civilizations of the world too. It takes thousands of years for them to shape up as we see it today. A study of Asian philosophy will reveal to us this crystallization process and will also inspire on us the way to shape our future. The course does not focus only on philosophy. Their associated origins, i.e., the corresponding beliefs, religious traditions, and the social functions of each tradition will also be discussed. It is interesting to learn through this course the differences in objectives and methodologies between different traditions, and how they interact or influence with one another, and in the end, the society. For better discussion, the course shall restrict the discussion on four major traditions: Shinto, Buddhism, Taoism, and Hinduism, since these are dominating philosophy in Asia for over thousands of years.

Pre-requisite: None

### **PHIL1002 CRITICAL THINKING**

This course introduces students to logic. Topics include the concept of critical thinking, the nature and modes of reasoning, the structure of argument, premises and conclusions, validity, inference, fallacy, argumentation, deductive and inductive reasoning, and causal arguments.

Prerequisite: None

### **PHIL1003 ANCIENT AND MEDIEVAL WESTERN PHILOSOPHY**

The course will focus on the major themes of Ancient Greek philosophy and on major philosophers of Medieval Christianity. The question with which the Ancient Greek philosophy starts—What does the universe consist of?—will be discussed in the context of pre-Socratic philosophy as well as Plato's, Aristotle's and Plotinus' as well as Epicurean thought. The question—What can we know?—will be discussed in the context of Plato's and Plotinus' theory of ideas and Aristotle's and Stoics' epistemological doctrines. The question—What is good (and

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evil)?—will be discussed in the context of Plato's, Aristotle, Stoic and Epicurean thought. The influence of Ancient Greek philosophy will be traced in the teaching of the two great Christian thinkers – St. Augustine and St. Thomas Aquinas. The difference in their approach to philosophy to that of Ancient Greek thinkers will be a separate topic of discussion.  
Pre-requisite: None

#### **PHIL1004 MODERN WESTERN PHILOSOPHY**

Modern philosophy in Europe developed under the influence of the original masterpieces of Ancient Greek Philosophy (in particular, Plato) and of discoveries in natural sciences and mathematics. The topics to be discussed in this are: 1. What kind of substances are there in the world and how do they interact? 2. What is the scope and subject of human knowledge? 3. What is the nature of good conduct? 4. How to achieve a good and efficient government? The first and second question will be discussed in the context of works of Descartes, Locke, Berkeley, Hume, Kant and Hegel. The third question will be discussed in the context of the teachings of Hume, Kant, Mill and Hegel. The fourth question is the subject of discussion of Machiavelli, Hobbes, Locke, Kant and Hegel.  
Pre-requisite: None

#### **PHIL1005 CONTEMPORARY WESTERN PHILOSOPHY**

In the twentieth century, in Europe and the USA philosophy developed in two separate directions. The analytic tradition was developed in the UK and USA primarily as a response to the 19th century idealism and to the development of mathematical logic. In this tradition, a systematic analysis of concepts, particularly in epistemology and semantics, dominates over any other approach to philosophy. From this tradition, the works of Russell, Wittgenstein, Austin as well the more recent works of Quine, Kripke and Davidson will be discussed. The non-analytic tradition built on the teachings of Kant and Hegel focuses on the questions of being and the possibility of transcendental knowledge. From this tradition, the works of Heidegger, Sartre, Lukacs and more recent works of Foucault and Habermas will be discussed.  
Pre-requisite: None

#### **PHIL1006 THE HISTORY OF CHINESE PHILOSOPHY**

Philosophy provides a framework that teaches people how to think logically and critically. Through this framework, philosophy helps people to look for answers for questions like, "What is the origin and meaning of life?" and "How to build a happy world?" Even Chinese philosophy and Western philosophy share these common concerns, Chinese philosophy is still very different from the west, particularly in the way that it structures the cosmos, and the relation of the human and the universe. The course shall give an introduction to Chinese philosophy, alongside with its history of development. The historical approach to philosophical studies allows students to understand how different schools of philosophy in China are solidified out of the vast, vague, and sometimes appearing contradicting assumptions and hypotheses.  
Pre-requisite: None

#### **PHIL1007 BUDDHIST PHILOSOPHY**

A study of Buddhist views of the human predicament and its solution, covering different teachings and forms of practice from India, Southeast Asia, Tibet, China, and Japan.  
Pre-requisite: None

#### **PHIL1008 COMPARATIVE ETHICS**

What is the good life and how do human beings achieve it? What makes us distinct from other species and how do we best relate to our environment? How do our relationships to our own death and the death of others influence our conceptions of living well? This course provides a comparative introduction to Asian and Western responses to these questions. By interpreting and comparing conceptions of the self, action, and the good in Buddhism, Confucianism, and Daoism, on the one, and selected Western philosophers on the other hand, a nuanced account of the morally good and happy life will be developed.  
Pre-requisite: None

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**PHIL1009 HUMAN RIGHTS AND CULTURAL VALUES**

Does the claim to the universality of human rights offer a groundwork for cross-cultural human values or is it itself an integral part of “global capitalism” or “Western hegemony”? What is the place of human rights in a society shaped by a non-Western frame of mind, for instance, by Confucian principles? What has been the political impact of recent human rights campaigns on non-Western societies? In this course we will seek to address these timely questions by focusing on the contemporary clash of Western notions of human rights with the cultural orientations of Asian societies, especially China. Substantial issues to be covered throughout the course include: universalism and multiculturalism, justice and virtue, the core/periphery distinction and globalization, cultural identity and class differentiation, religion and modes of modernity.

Pre-requisite: None

**PHIL1010 PHILOSOPHY OF RELIGION**

This course examines the main issues and themes in the relations of philosophy and religion from a comparative perspective. Topics include the concept of ‘religion’, the relation between religion and philosophy, the nature of the sacred, the reality of God, belief and rationality, the problem of evil, theories of theodicy, afterlife, and the plurality of religious traditions. Particular attention will be given to the implications of God’s existence or non-existence for moral judgment and action.

Pre-requisite: None

**PHIL1011 PHILOSOPHY OF MIND**

This course considers theories in contemporary philosophy of mind, which is concerned with fundamental questions about the nature of the mind, and its place in the natural and social worlds. It explores various theories of the mind, the relationship between mind and body, the self, the conception of consciousness, the human vs. non-human mind, introspection, and the knowledge of other minds.

Pre-requisite: None

**PHIL1012 POLITICAL PHILOSOPHY**

This course engages central topics in political philosophy including the nature of justice, forms of governance, the public-private distinction as well as conceptions of political power and legitimacy. These topics will be addressed by studying seminal texts written by classical and contemporary political philosophers. The goal is to better understand the ways different political philosophies have given expression to various forms of political institutions and shape the lives of those people affected by them.

Pre-requisite: None

**PHIL1014 SPECIAL TOPICS IN PHILOSOPHY**

Special courses on various philosophy topics

Pre-requisite: None

**PHIL1015 DAOIST PHILOSOPHY**

This course explores the ancient Chinese philosophy of Daoism. It focuses on the texts Laozi (Lao Tzu) and Zhuangzi (Chuang Tzu) in order to arrive at a general understanding of crucial issues, concepts, and notions of “classical” Daoism. The course will present a general overview of the history of philosophical Daoism and focus on analyses of core Daoist images and allegories. On the basis of these images and allegories, major issues of Daoist philosophy will be discussed. The course will also include comparative outlooks to contemporary Chinese and Western philosophy.

Pre-requisite: None

**PHIL1016 MASS MEDIA PHILOSOPHY**

This course introduces several theories on the Mass Media. The media theoreticians W. Benjamin, M. McLuhan, and N. Chomsky are introduced. The debate on the socio-political role

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of TV between H.-M. Enzensberger and his “postmodernist” critic J. Baudrillard will be discussed. The second half of the course will focus on N. Luhmann’s description of the “Reality of the Mass Media”.

Pre-requisite: None

### **PHIL1017 PHILOSOPHY OF LANGUAGE**

This course is an introduction to contemporary philosophy of language. Philosophy of language is concerned with many topics, of syntactic, semantic, and pragmatic nature, such as: meaning, truth, reference, epistemology of language understanding and language learning, ontology of languages, mental and psychological basis of communication, indeterminacy of translation, speech acts, metaphors, indeterminacy of translation, and so on. The course will offer an overview of these topics, with a special focus on their pragmatic features and on implicit communication.

Pre-requisite: None

### **PHIL2000 CULTURAL VALUES AND GLOBAL JUSTICE**

Does the claim to global justice offer a groundwork for transnational values or is it itself an integral part of “global capitalism” or “Western hegemony”? Is our moral vision a mere reflection of our cultural preferences and biases? If not, what may serve as the grounds on which the moral judgments of distinct civilizations can be rationally assessed, criticized or justified? In this course we will seek to address these timely questions by focusing on contemporary debates over globalization, global justice, and the “clash of civilizations.”

Pre-requisite: None

### **PHIL2001 CAPITALISM AND MORALITY**

This course investigates the relationship between capitalism and morality. After tracing the religious roots of capitalism, central features such as the free exchange of products, private property, ideology, and alienation will be systematically elaborated. Different forms such as corporate, free markets, and casino capitalism will be distinguished and related to questions of legitimation, justice and the good life. During the second half of the course we will analyze the impact of global capitalism on culture and politics. Finally, we will pursue the question whether it is still possible to conceive of reasonable alternatives to capitalist modes of production.

Pre-requisite: None

### **PHIL3000 PHILOSOPHY AND FILM**

Since its emergence at the turn of the 20th century, film has made possible a new way of encountering the world. On the one hand, its ability to record, magnify, and reframe aspects of our world allows it to interrogate, narrate, and disclose the world – along with our modes of inhabiting it – in distinctive ways. On the other hand, being pledged to the plurality of individual lives in an intransigently material world, film holds out an irreducibly democratic promise. Understanding these large epistemic, aesthetic, and socio-political claims of the medium is the object of a philosophical analysis of film.

Pre-requisite: None

### **PHIL7000 PHILOSOPHICAL WRITING AND METHODOLOGY**

This course covers the basics of academic writing in philosophy and provides an overview of the most important philosophical methodologies. The ability to express ideas clearly in an academic format is essential to philosophy and this course brings the development of this skill to the forefront while also focusing on the philosophical methodologies that frame investigation in this field of study.

Pre-requisite: None

### **PHIL7001 POLITICS, ETHICS AND SOCIETY**

This course engages central topics in social and political philosophy and in ethics such as, for instance, the nature of justice, forms of governance, the emergence and changes of social structures, or conceptions of political power and legitimacy. Such topics will be addressed by



studying seminal texts written by classical or contemporary social and political philosophers and ethicists from Western and/or Eastern philosophical traditions. The goal is to better understand how different social and political philosophies have given expression to various forms of institutions and shaped the lives of people affected by them throughout different periods of history.

Pre-requisite: None

#### **PHIL7002 LOGIC AND CRITICAL THINKING**

The course will present the students with the methods and principles used to distinguish correct from incorrect reasoning, it will cover skills essential to identifying fallacies in reasoning. Elementary formal techniques will be used to analyze natural language arguments.

Pre-requisite: None

#### **PHIL7003 MIND AND WORLD**

This course provides the students with an overview of the important basic concepts, arguments, and positions in epistemology and metaphysics, as these concern the fundamental structure of reality and our knowledge of it. The course will focus on topics and themes that have been important with recent philosophical debates.

Pre-requisite: None

#### **PHIL7004 HISTORY OF WESTERN PHILOSOPHY**

This course presents students with a selection of the main ideas and themes that have shaped Western philosophy from its origins in Ancient Greece up to the nineteenth century.

Pre-requisite: None

#### **PHIL7005 HISTORY OF CHINESE PHILOSOPHY**

This course presents students with a selection of the main philosophers, movements, ideas, and themes in Chinese philosophy. The course will scrutinize the claim that Chinese philosophy presents an alternative way of thinking, perceiving, or doing “things” than that found in other forms of thought.

Pre-requisite: None

#### **PHIL7006 KEY FIGURES AND TEXTS IN ASIAN PHILOSOPHY**

This course provides the opportunity for close reading of key texts and examination of the thought of important figures within Asian philosophy. Alternative interpretations of key texts and philosophical theories will be explored.

Pre-requisite: None

#### **PHIL7007 KEY FIGURES AND TEXTS IN WESTERN PHILOSOPHY**

The unfolding of Western philosophy has centred around the reception of key texts. For instance, foundational texts produced in Ancient Greece (e.g., by Plato and Aristotle) gave rise to important developments in Roman philosophy and a rich commentarial tradition in the Middle Ages. The Renaissance drew inspirations from these texts as did modern Western philosophy. In contemporary philosophy, both the Analytic and Continental traditions continue to refer to them. The present course will select one or more key texts from any period of the history of Western philosophy and study them systematically and in the context of their impact and their role within intellectual history.

Pre-requisite: None

#### **PHIL7008 PHILOSOPHY OF SCIENCE**

Philosophy of science is an applied discipline that studies the normative structure of scientific reasoning and examines scientific practices from a critical perspective. This course will address some of the central problems regarding the nature of scientific theories, knowledge, and methodology by examining the major traditional issues and contemporary topics of discussion in the field.

Pre-requisite: None

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**PHIL7009 PRACTICAL PHILOSOPHY**

What is the good life and how do human beings achieve it? What can philosophy contribute to resolving question about how to best relate to our environment? How can we deal with newly evolving technologies and the digitization of our lifeworld? How to be economically productive and yet content? How do our bodies and our mortality influence our conceptions of living well? This course introduces philosophical responses to such questions. It applies philosophical ideas to real-world problems and relates philosophical reasoning to practical problems of human existence in the contemporary world.

Pre-requisite: None

**PHIL7010 COMPARATIVE PHILOSOPHY**

Comparative philosophy engages selected philosophical topics and problems in dialogue from across cultural, linguistic, and religious streams. The aim of the course is to help students to understand important ideas, theories and issues of the life from a philosophical and comparative perspective.

Pre-requisite: None

**PHIL7011 WORLD PHILOSOPHIES**

Philosophy has a long history in many cultures and is found within all literate societies. In many parts of the world people have asked philosophical questions about reality, the self, and about what constitutes a good life and their answers have been shaped by their cultures and historical contexts. Philosophical reflection has also had a formative impact on social and cultural forms. This course provides and accessible introduction to a selection of the central streams of world philosophy, such as Japanese and Korean philosophy, Indian philosophy, and Islamic Philosophy.

Pre-requisite: None

**PHIL7012 SPECIAL TOPICS IN PHILOSOPHY**

The course focuses on a specific topic of current interest which may be drawn from one or more of several different philosophical fields. Students will be presented with an in-depth analysis of the selected topic, and of its philosophical significance within philosophy and across cognate disciplines.

Pre-requisite: None

**PHIL7013 THE MEANING OF LIFE**

Socrates, the father of philosophy in the West, said, "The unexamined life is not worth living." This course is designed to provide students with tools and questions so that they can profitably reflect on their own lives. It will connect the practice of philosophy from various cultural milieu to concerns that are central to the lives of people today. The quest for a meaningful life is a human universal, although the approaches to this search vary globally. By connecting philosophical inquiry to real life, this course will reveal the life transforming power of philosophical reflection.

Pre-requisite: None

**PHIL7014 PHILOSOPHY OF THE METAVERSE**

This course is a philosophical exploration of the potential impact of the future implementation of the VR (Virtual Reality), AR (Augmented Reality), Mixed Reality (MR) technology in our daily lives. Starting from a philosophical analysis of the notion of the Metaverse as a simulation hypothesis, where the object of the simulation is our experience of 'being there' in a virtual world beyond and parallel to the physical world, the course will address a range of philosophical issues arising from the actual and potential impact of the Metaverse on human lives.

Pre-requisite: None

**PHIL7998 PROJECT REPORT**

The Project Report should consist of a formally written academic report that focuses on a philosophical position or concept and involves a theoretical analysis of a unique topic relevant

to the student's research focus.

Pre-requisite: None

#### **PHIL8004 SPECIAL TOPICS IN PHILOSOPHY AND RELIGION I**

This is an advanced course for PhD students focusing on some specific topic of research depending on the interests and competence of the instructor. Contents may include such methodologies as critical theory, deconstructive hermeneutics, postcolonial theory, identity politics, comparative religions, philological versus philosophical textual analysis, or history of ideas.

Pre-requisite: None

#### **PHIL8006 RESEARCH WRITING IN PHILOSOPHY AND RELIGIOUS STUDIES**

This is an advanced course for PhD students focusing on the development of the students' critical understanding of primary and secondary source texts in Philosophy and Religious Studies. This course aims at enhancing the students' reading, oral, writing, research, and argumentation skills. Selection of specific topics and texts depends on the research field and area of expertise of the instructor.

Pre-requisite: None

#### **PHIL8999 DOCTORAL THESIS**

This is an advanced course for PhD students, focusing on original research and the completion of a doctoral thesis.

Pre-requisite: None

#### **PORT1000 PORTUGUESE LANGUAGE I - INTRODUCTORY PORTUGUESE**

Basic Portuguese. Principles of written and oral language. The comprehension and conversation through exercises in the class and language laboratory. The grammar fundamentals obtained through the use of simple pronunciation and reading materials.

Pre-requisite: None

#### **PORT1001 PORTUGUESE LANGUAGE II**

Development of the programme and principles introduced in Portuguese Language I, aimed at applied Portuguese. Simple problems and written materials.

Pre-requisite: None

#### **PORT1002 ORAL COMPREHENSION AND PRODUCTION SKILLS I**

This course is designed for practising listening skills to develop appropriate and clear pronunciation. Students will listen and produce short dialogues related to their interests and familiar situations.

Pre-requisite: None

#### **PORT1003 WRITTEN COMPREHENSION AND PRODUCTION SKILLS I**

The main aim of this course is to provide students with a good foundation of Portuguese language so they may use familiar everyday expressions, basic structures, and vocabulary to satisfy specific communication needs in their daily lives.

Pre-requisite: None

#### **PORT1004 ORAL COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to develop oral skills in Portuguese through dialogues and other role play activities. The students should reach the elementary proficiency level at the end of the course.

Pre-requisite: PORT1002

#### **PORT1005 WRITTEN COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to provide students with upper elementary Portuguese language written comprehension and production skills so that they will be able to interpret and produce short texts using simple and frequent vocabulary and expressions related to immediate priority areas,

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as well as to describe their background, surrounding environment, daily routine, present and past actions and matters related to immediate needs.

Pre-requisite: PORT1003

### **PORT1006 PORTUGUESE LANGUAGE AND CULTURE I**

The main objective of this course is an introduction to a broader view of contemporary life and culture in Portuguese-speaking countries as well as Macao and the development of fluency in reading and oral comprehension and expression at a beginner level.

Pre-requisite: None

### **PORT1007 PORTUGUESE LANGUAGE AND CULTURE II**

This course's main objective is to develop a broader view of contemporary life and culture in the Portuguese-speaking countries and Macao, as well as development of fluency in reading and oral comprehension and expression at the elementary proficiency level.

Pre-requisite: PORT1006

### **PORT1008 ELEMENTARY SPANISH I**

This is a basic course to introduce the students into the Spanish pronunciation, and to recognize the basic Spanish grammar and usage. Readings and conversations are in the "Present Tense".

Pre-requisite: None

### **PORT1009 ELEMENTARY SPANISH II**

To foster an interest to continue learning Spanish, allowing the students to express themselves and read and write present, past and future events.

Pre-requisite: PORT1008

### **PORT1010 INTERMEDIATE SPANISH I**

To continue to learn how to speak, understand, read and write idiomatic Spanish in a way the student can feel confident to use Spanish as an instrument of communication.

Pre-requisite: PORT1009

### **PORT1011 INTERMEDIATE SPANISH II**

This course builds on PORT1010 extends the students' knowledge of the spoken and written language, as well as exposing them to a greater range of cultural materials.

Pre-requisite: PORT1010

### **PORT1013 ADVANCED SPANISH FOR SPECIFIC PURPOSES I**

This course aims to introduce students to the basic knowledge and study of specific selected topics and issues. The course will cover topics such as development and construction of Hispanic culture and civilization (history, geography, literature, art and other cultural manifestations), Spanish for specific purposes (job applications, resumes, interviews, business meetings, cross-cultural differences between Spanish speaking and Chinese business environments, commercial correspondence, Spanish for hotels and restaurants/hospitality, Spanish for law enforcement). Though a series of readings from magazines, newspapers, internet articles and audiovisual materials, students will be exposed to a new specialized business-oriented vocabulary which will help them to communicate effectively in their field and to practice new grammatical skills.

Pre-requisite: PORT1010

### **PORT1014 ADVANCED SPANISH FOR SPECIFIC PURPOSES II**

This course is built on the subjects and skills covered in the previous course "Advanced Spanish for Specific Purposes I" but at a more advanced level. The main target is to provide students with the chance to apply their newly acquired knowledge in a wide variety of situations through realistic tasks, oral interaction in pairs and group work, role playing, presentations, etc. Authentic reading and audiovisual materials are also used throughout the course. In addition,

students will analyze and practice advanced grammatical skills in order to develop a higher proficiency in speaking and writing. By the end of the course, students should be able to understand long articles related to cultural and business topics, to use Spanish effectively and precisely for social and professional purposes, and to develop an understanding of Hispanic culture, society, and business practices.

Pre-requisite: PORT1010

#### **PORT1015 SPECIAL TOPICS IN SPANISH STUDIES I**

This course is designed to offer students the chance to explore a variety of topics related to the Spanish-speaking countries. The contents will vary from year to year.

Pre-requisite: PORT1010

#### **PORT1016 SPECIAL TOPICS IN SPANISH STUDIES II**

This course is designed to offer students the chance to explore a variety of topics related to the Spanish-speaking countries. The contents will vary from year to year.

Pre-requisite: PORT1010

#### **PORT2000 PORTUGUESE III**

Improvement of written comprehension and expression. The different levels of written and spoken Portuguese. Reading and interpretation of text from the press.

Pre-requisite: PORT1001

#### **PORT2001 PORTUGUESE LANGUAGE IV**

Development of the programme and principles introduced in Portuguese Language I, aimed at perfecting the written and spoken Portuguese. Reading and interpretation of cultural and social texts from the press

Pre-requisite: PORT2000

#### **PORT2006 ORAL COMPREHENSION AND PRODUCTION SKILLS III**

The main objective of this course is the development of oral skills in Portuguese through listening and production tasks from the preceding elementary proficiency level to a lower intermediary level.

Pre-requisite: PORT1004

#### **PORT2007 WRITTEN COMPREHENSION AND PRODUCTION SKILLS III**

This course serves as an introduction to the reading and composition of various forms of written texts. Students will be expected to utilise verbs in the correct tense and learn the subjunctive mood. Through exercises and activities emphasising contextualized use of structures, students will learn to produce different types of texts suitable for presentation and discussion.

Pre-requisite: PORT1005

#### **PORT2012 ORAL COMPREHENSION AND PRODUCTION SKILLS IV**

The aim of this course is to further develop oral skills in Portuguese through listening and production tasks from the preceding lower intermediate proficiency level to an intermediary level.

Pre-requisite: PORT2006

#### **PORT2013 WRITTEN COMPREHENSION AND PRODUCTION SKILLS IV**

This course will focus on a comprehensive review of structures previously taught in the last three semesters, and the introduction and reinforcement of new structures. Students will engage in essay writing on various topics and practice summarisation and abstract writing techniques.

Pre-requisite: PORT2007

#### **PORT3000 PORTUGUESE V**

Reading interpretation of literary, scientific and technical texts. Writing of critical essays.

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Debates aimed at perfecting the oral expression and vocabulary.

Pre-requisite: None

### **PORT3002 PRACTICAL WRITING FOR PROFESSIONAL PURPOSES I**

A practical course in which students are trained in writing texts for professional purposes: official and commercial correspondence, memoranda, declarations, summary reports, applications and advertisements.

Pre-requisite: PORT1007, PORT2013

### **PORT3004 TRANSLATION I (PORTUGUESE TO CHINESE)**

This course deals with the basic written translation skills from Portuguese to Chinese, considering aspects of contrastive language structure, semantics, pragmatics and style. Based on the completion of the 2nd year of Portuguese studies, students will start translating the text of a varied nature in order to prepare them for future translation work in their professional careers.

Pre-requisite: PORT1007, PORT2012

### **PORT3005 INTRODUCTION TO LINGUISTICS**

The course introduces basic concepts of the phonology, morphology, syntax, semantics and lexicon of Portuguese, with the purpose of developing the student's knowledge of the grammatical system of Portuguese and the ability to describe and analyse the language for learning and pedagogical applications.

Pre-requisite: PORT1007, PORT2012

### **PORT3006 INTRODUCTION TO THE STUDY OF THE LITERATURE OF THE PORTUGUESE-SPEAKING WORLD I**

This course aims to help students develop skills for understanding representative texts of the literature of the Portuguese-speaking world, including short stories and plays. It is designed to help students learn foundational skills in literacy, critical reading, and writing. Students will be introduced to the basic terminology and analytical methods and write short essays in response to the readings.

Pre-requisite: PORT1007, PORT2012

### **PORT3007 MODERN AND CONTEMPORARY HISTORY OF THE PORTUGUESE-SPEAKING COUNTRIES I**

This course provides an overview of the history of the Portuguese-speaking countries, with special emphasis on recent and contemporary issues, resorting to images, historical documents, and videos. From the Portuguese maritime expansion up to the present, the course focuses on the evolution of the Portuguese Colonial Empire's political, social, cultural, and economic aspects, the decolonisation, and the formation of the Portuguese-speaking countries and their global involvement.

Pre-requisite: PORT1007, PORT2012

### **PORT3008 SPECIAL TOPICS I**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: Portuguese Language and Culture in Cinema, Portuguese History, History of Macao, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT1007, PORT2012

### **PORT3009 SPECIAL TOPICS II**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: Portuguese Language and Culture in Cinema, Portuguese History, History

of Macao, Portuguese Literature, Brazilian Literature, etc.  
Pre-requisite: PORT1007, PORT2012

**PORT3011 PRACTICAL WRITING FOR PROFESSIONAL PURPOSES II**

A practical course in which students are trained in writing official, administrative and formal texts considering Macao socio-cultural context and the differences among the varieties of the Portuguese language concerning the linguistic and cultural diversity.  
Pre-requisite: PORT3002

**PORT3013 TRANSLATION II (CHINESE TO PORTUGUESE)**

This course deals with the basic skills of written translation from Chinese to Portuguese, considering aspects of contrastive language structure, semantics, pragmatics and style. Based on advanced translation practice, students will have a more systematic study of translation between Chinese and Portuguese. They will begin to translate texts more complicated, of a more varied nature, in order to prepare them better for the future translation work in their professional career.  
Pre-requisite: PORT3002, PORT3019

**PORT3014 PORTUGUESE LINGUISTICS: GRAMMAR**

This course provides a linguistic overview of the grammar of the Portuguese language and includes references to characteristics of the different varieties of the Portuguese language.  
Pre-requisite: PORT3002, PORT3019

**PORT3015 INTRODUCTION TO THE STUDY OF THE LITERATURE OF THE PORTUGUESE-SPEAKING WORLD II**

This course is designed to help students understand the Portuguese-speaking world's contemporary texts and further develop skills in literacy, critical reading, and writing. Different genres will be covered (poetry, romances, short novels and dramas), and a further understanding of the various cultures, societies and works underlying literary texts will be attended. This course will thus provide students with appropriate skills for critically analysing major literary genres.  
Pre-requisite: PORT3002, PORT3019

**PORT3016 MODERN AND CONTEMPORARY HISTORY OF THE PORTUGUESE-SPEAKING COUNTRIES II**

This course provides an overview of the history of the Portuguese-speaking countries, with special emphasis on recent and contemporary issues, resorting to images, historical documents, and videos. From the Portuguese maritime expansion up to the present, the course focuses on the evolution of the Portuguese Colonial Empire's political, social, cultural, and economic aspects, decolonisation, and the formation of the Portuguese-speaking countries and their global involvement.  
Pre-requisite: PORT3002, PORT3019

**PORT3017 SPECIAL TOPICS III**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: Portuguese Language and Culture in Cinema, Portuguese History, History of Macao, Portuguese Literature, Brazilian Literature, etc.  
Pre-requisite: PORT3002, PORT3019

**PORT3018 SPECIAL TOPICS IV**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: Portuguese Language and Culture in Cinema, Portuguese History, History

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of Macao, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT3002, PORT3019

### **PORT3019 ADVANCED ORAL COMPREHENSION AND PRODUCTION SKILLS I**

The course is designed to develop comprehension of real-life audio and video texts in different varieties of Portuguese, focusing on areas of current affairs, diplomacy, legal language, and business. Students will interact about the content of audio and video texts.

Pre-requisite: PORT1007, PORT2012

### **PORT3020 ADVANCED ORAL COMPREHENSION AND PRODUCTION SKILLS II**

The course is designed to develop further the aims of Advanced Oral Comprehension and Production Skill I. Use of real-life audio and video texts in different varieties of Portuguese, focusing on areas of current affairs, diplomacy, legal language, and business. Students will transcribe, comment on audio and video documents, and produce texts through simulation activities and task performance.

Pre-requisite: PORT3019

### **PORT4001 RESEARCH AND REPORT WRITING SKILLS**

An advanced course in the writing of academic or administrative texts for professional purposes. The course provides training in the planning, structure and composition of texts of an academic nature.

Pre-requisite: PORT3011, PORT3020

### **PORT4002 ADVANCED TRANSLATION I (PORTUGUESE TO CHINESE)**

This course trains the student in written translation from Portuguese to Chinese, with emphasis in the areas of business, legal writing, socio-political affairs, science and technology.

Pre-requisite: PORT3011, PORT3020

### **PORT4003 INTERPRETING I (PORTUGUESE TO CHINESE)**

This course will concentrate on basic interpreting skills covering note-taking, memory span improvement, sight translation and the basics of consecutive and simultaneous interpreting. The student will work with a range of basic topics in the areas of business, socio-political affairs, and science and technology. Students will undertake practical training in the language laboratory.

Pre-requisite: PORT3011, PORT3020

### **PORT4004 TEACHING PORTUGUESE AS A FOREIGN LANGUAGE I**

Introduction to the theories of second language acquisition and the methodologies of teaching of a foreign language, with emphasis on the teaching of Portuguese. The course focuses on current internationally recognised theories and methods.

Pre-requisite: PORT3011, PORT3020

### **PORT4006 SPECIAL TOPICS V**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: History of Culture of the Portuguese-speaking nations, Portuguese Language and Culture in Cinema, Portuguese History, Literary Translation, Business Translation, Legal Translation, Business Interpreting, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT3011, PORT3020

### **PORT4007 SPECIAL TOPICS VI**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may



be offered include: History of Culture of the Portuguese-speaking nations, Portuguese Language and Culture in Cinema, Portuguese History, Literary Translation, Business Translation, Legal Translation, Business Interpreting, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT3011, PORT3020

#### **PORT4008 GRADUATION PROJECT**

This course is a practical seminar intended to provide training in the formulation of advanced research projects in the student's area of interest. Students will be required to identify and develop relevant research questions and conduct systematic and creative assignments from a theoretical and practical framework to a well-developed, cohesive and coherent short thesis. Students will need to understand and apply methods for drawing and developing arguments and to provide evidence for scientific statements. Attention will be also given to relevant aspects of academic writing conventions.

Pre-requisite: PORT4001

#### **PORT4011 ADVANCED TRANSLATION II (CHINESE TO PORTUGUESE)**

This course trains the student in written translation from Chinese to Portuguese, with emphasis in the areas of business, legal writing, socio-political affairs, science and technology.

Pre-requisite: PORT3011, PORT3020

#### **PORT4012 INTERPRETING II (CHINESE TO PORTUGUESE)**

This course will concentrate on basic interpreting skills covering note-taking, memory span improvement, sight translation and the basics of consecutive and simultaneous interpreting. The student will work with a range of basic topics in the areas of business, socio-political affairs, and science and technology. Students will undertake practical training in the language laboratory.

Pre-requisite: PORT3011, PORT3020

#### **PORT4013 TEACHING PORTUGUESE AS A FOREIGN LANGUAGE II**

Application of current methodologies and practices in the teaching of a foreign language, with emphasis on the teaching of Portuguese. The course emphasises the need for research-based approaches and stresses the importance of international best practices.

Pre-requisite: PORT3011, PORT3020

#### **PORT4015 SPECIAL TOPICS VII**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: History of Culture of the Portuguese-speaking nations, Portuguese Language and Culture in Cinema, Portuguese History, Literary Translation, Business Translation, Legal Translation, Business Interpreting, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT3011, PORT3020

#### **PORT4016 SPECIAL TOPICS VIII**

This course is designed to permit visiting scholars, or existing staff, to offer courses in their particular areas of specialisation. The topic and content of the courses will vary from year to year, depending on the availability of specialised staff. Examples of specialised topics that may be offered include: History of Culture of the Portuguese-speaking nations, Portuguese Language and Culture in Cinema, Portuguese History, Literary Translation, Business Translation, Legal Translation, Business Interpreting, Portuguese Literature, Brazilian Literature, etc.

Pre-requisite: PORT3011, PORT3020

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**PORT7000 LINGUISTICS METHOD I**

A course covering the analytic linguistic description of the following key areas of Portuguese: morphology and lexicon and phonetics-phonology, with special application to the acquisition and teaching of Portuguese as a Foreign Language. Students will be introduced to data collection purposes and procedures.

Pre-requisite: None

**PORT7001 LINGUISTICS METHOD II**

A course covering the analytic linguistic description of the following key areas of Portuguese: syntax and semantics-pragmatics, with special application to the acquisition and teaching of Portuguese as a Foreign Language. Students will be introduced to data collection purposes and procedures.

Pre-requisite: PORT7000

**PORT7002 PORTUGUESE FOR PROFESSIONAL PURPOSES I**

A discipline that is designed to develop Advanced Specialized Professional Level Proficiency in foreign language speakers of Portuguese who have attained advanced general proficiency. The course is for persons who require a very high degree of linguistic accuracy for professional purposes. It is designed to develop an acute awareness of self-evaluation and critique in order to identify and resolve diverse types of performance inaccuracy in both the spoken and written languages.

Pre-requisite: None

**PORT7003 PORTUGUESE FOR PROFESSIONAL PURPOSES II**

A second and more advanced level discipline for the development and consolidation of Advanced Specialized Professional Level Proficiency in foreign language speakers of Portuguese who have attained advanced general proficiency. The course is for persons who require a very high degree of linguistic accuracy for professional purposes. It is designed to develop an acute awareness of self-evaluation and critique in order to identify and resolve diverse types of performance inaccuracy in both the spoken and written languages.

Pre-requisite: PORT7002

**PORT7004 THE PROCESS OF LANGUAGE ACQUISITION (L1 AND L2)**

This course covers current theories of language acquisition. The course will first outline current concerns in first language acquisition. Subsequently, it will concentrate on second language acquisition theories, attending to acquisition processes, phases in development, and external conditioning factors, including first language, age, motivation and instructional mode and context. At all times, specific attention will be addressed to acquisition involving Portuguese.

Pre-requisite: None

**PORT7005 METHODOLOGY OF TEACHING PORTUGUESE AS A SECOND LANGUAGE**

This course addresses the application of current methodologies in the teaching of Portuguese as a Second Language. Developments in linguistics, educational and psychological studies lead to constant new input to foreign language teaching methodology and practice. The course introduces the student to major current practices and how research-driven innovations are developed in current practice.

Pre-requisite: None

**PORT7006 CURRICULUM PLANNING AND MATERIALS EVALUATION FOR PORTUGUESE AS A FOREIGN LANGUAGE**

This is a course covering principles and procedures in the design of the Portuguese Foreign Language curriculum, and in the design of Portuguese foreign language materials. The student will develop a critical sense for the evaluation of both curricula and materials, while also developing skills with respect to the creation of new materials and resources.

Pre-requisite: None

**PORT7007 DEVELOPING READING SKILLS IN PORTUGUESE AS A FOREIGN LANGUAGE**

The course surveys critically current major concepts and approaches to the teaching and acquisition of reading in a foreign language. The course will give particular attention to the application of current approaches in the teaching of Portuguese as a Foreign Language, and the incorporation of these approaches in pedagogical practice.

Pre-requisite: None

**PORT7008 SUPERVISED TEACHING PLANNING AND PRACTICE IN PORTUGUESE AS A SECOND LANGUAGE**

In this course the student is supervised in the planning and delivery of class teaching sessions in Portuguese as a second Language within the framework of specific curricula. Students will prepare and present lesson plans, class activities and procedures to the instructor and fellow students, and receive critical evaluations of their performances.

Pre-requisite: None

**PORT7009 PORTUGUESE SOCIOLINGUISTICS**

The course covers the topic of language variation in Portuguese, introducing some of the major theories thereon, and descriptive analytic practices. The course is configured to address sociolinguistic topics of particular relevance to the future Portuguese language professional, giving special attention to social and regional linguistic variation, and registers. The course also addresses the application of sociolinguistic variation in the context of Portuguese Foreign Language instruction.

Pre-requisite: None

**PORT7010 SPECIAL TOPIC IN PORTUGUESE APPLIED LINGUISTICS I**

A course designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in particular areas of specialization that do not already figure in the programme. The topic and content of the course will vary from year to year depending on the availability of specialized staff. Examples of topics that might be offered include: Testing in Portuguese as a Foreign Language, Technology in the Portuguese Foreign Language Class, Interactional Sociolinguistics in Portuguese, Clinical Linguistics applications in Portuguese as a Foreign Language, Patuá – the Creole Portuguese Language of Macao, Computational Linguistics Applications, etc.

Pre-requisite: None

**PORT7011 SPECIAL TOPIC IN PORTUGUESE APPLIED LINGUISTICS II**

A course designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in particular areas of specialization that do not already figure in the programme. The topic and content of the course will vary from year to year depending on the availability of specialized staff. Examples of topics that might be offered include: Testing in Portuguese as a Foreign Language, Technology in the Portuguese Foreign Language Class, Interactional Sociolinguistics in Portuguese, Clinical Linguistics applications in Portuguese as a Foreign Language, Patuá – the Creole Portuguese Language of Macao, Computational Linguistics Applications, etc.

Pre-requisite: None

**PORT7013 THESIS AND RESEARCH WRITING SEMINAR**

This is a practical seminar designed to train students in the formulation of research projects, and is intended to serve as a platform for the formulation and development of the dissertation project. The student will be required to identify relevant research questions and conduct systematic research from theoretical and practical perspectives, presenting stage papers on the development of the dissertation project.

Pre-requisite: PORT7112

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**PORT7105 MODERN LUSOPHONE LITERATURE**

The discipline surveys the literature of the modern Portuguese speaking nations, including Portugal, Brazil, the African Portuguese-speaking nations and Timor Lorosa'e, touching upon the colonial period yet paying particular attention to the literature of the 20th and 21st centuries. Pre-requisite: None

**PORT7107 IMAGES OF THE EAST IN PORTUGUESE LANGUAGE LITERATURE**

The discipline is dedicated principally to the study of the representation of the East in Portuguese narratives in early and modern periods. It addresses travel literature, including that of Fernão Mendes Pinto, and the topics of the imaginary East and the specific representation of Macao.

Pre-requisite: None

**PORT7108 MACAO LITERATURE IN PORTUGUESE**

This course studies diverse literary texts produced in Portuguese in Macao which present interesting, very different and sometimes controversial insights and perspectives on life in Macao society. As Portugal administrated Macao for more than 450 years, in addition to the literary texts of Portuguese residents and of the local Luso-Asian community, there is a corpus of literary texts written by short time visitors. The authors were Portuguese civil servants, lawyers, military officers and teachers who served in the territory, as well as Portuguese writers invited by the Macao government.

Pre-requisite: None

**PORT7111 LITERARY & CULTURAL STUDIES METHOD I**

The course covers the basic issues in research methodology and theories relevant to literature and cultural studies in the Portuguese area. Basic issues of literary and cultural analyses will be covered. These will be approached specifically in relation to the study of the Portuguese presence in Asia.

Pre-requisite: None

**PORT7112 LITERARY & CULTURAL STUDIES METHOD II**

This course addresses the main questions related to the notions of literature and culture, as well as models of literary reading. It will survey the major schools of 20th and 21st century literary criticism and theory and continue to discuss theoretical notions through the reading and analysis of both critical essays and Portuguese literary texts. Emphasis will be on the continuity of key ideas in the history of criticism. We will also consider debates surrounding multiculturalism, feminism, political correctness, textual authority, and literary canon.

Selected literary texts include Patrícia Portela, Dias Úteis; José Maria Vieira Mendes, Padam, Padam; Maria Isabel Barreno, Maria Teresa Horta and Maria Velho da Costa, Novas Cartas Portuguesas; João Pedro Vale and Nuno Alexandre Ferreira, Aqueles que só fazem meia revolução apenas cavam a sua própria sepultura; Grada Kilomba, Memórias da Plantação and selected poems by Mário Cesariny and Herberto Helder.

The course aims to continue to provide a general overview of the main theoretical and methodological questions in the fields of literary and cultural studies and to develop students' critical analysis and written and oral skills. Addressed questions: to develop practical tools for reading and analyzing literature; what does theory tell us about the function and social value of literature in the postmodern world context.

Pre-requisite: PORT7111

**PORT7113 SPECIAL TOPIC IN LITERARY AND CULTURAL STUDIES I**

A course designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in particular areas of specialization relating to Literary and Cultural Studies, History or Creative Writing, that do not already figure in the programme. The topic and content of the course will vary from year to year depending on the availability of specialized staff. Examples of topics that might be offered include: Advanced theories of Research, Advanced Theories of Literary analysis, Children's Literature in the Portuguese language, the Modern History of a

specific Portuguese speaking nation, Portuguese Creative writing for television and film, Macao Literature in Patuá (Macao Creole Portuguese), The Portuguese in the Indian Ocean, Relations between Macao and Siam, The Manila-Macao connection, the Luso-Asian Family, Luso-Asian writing, Travel writing in Portuguese colonial times, the Portuguese historical cultural view of Asian Societies.

Pre-requisite: None

#### **PORT7114 SPECIAL TOPIC IN LITERARY AND CULTURAL STUDIES II**

A course designed to permit visiting scholars, or existing staff, to offer postgraduate level courses in particular areas of specialization relating to Literary and Cultural Studies, History or Creative Writing, that do not already figure in the programme. The topic and content of the course will vary from year to year depending on the availability of specialized staff. Examples of topics that might be offered include: Advanced theories of Research, Advanced Theories of Literary analysis, Children's Literature in the Portuguese language, the Modern History of a specific Portuguese speaking nation, Portuguese Creative writing for television and film, Macao Literature in Patuá (Macao Creole Portuguese), The Portuguese in the Indian Ocean, Relations between Macao and Siam, The Manila-Macao connection, the Luso-Asian Family, Luso-Asian writing, Travel writing in Portuguese colonial times, the Portuguese historical cultural view of Asian Societies.

Pre-requisite: None

#### **PORT7115 INTERCULTURAL COMMUNICATION**

Intercultural Communication addresses the situation of languages and cultures in the contemporary globalized world. It aims at understanding the frames of identity formation and co-existence and their influence in the modern cultural means of artistic expressions. The seminar includes an introduction to the diversity of the Portuguese language in the world, its cultural environment and particularities in order to clearly address the challenges of globalization and multicultural stereotypes in the age of post-colonialism.

Pre-requisite: None

#### **PORT7116 GRAMMAR AND COMMUNICATION**

Grammar and Communication for Foreign Language aims at providing a full description of the functions of language from the point of view of communicative grammar. Its goal is to study language as it is really used in social practice and everyday life.

Pre-requisite: None

#### **PORT7117 LITERATURE AND OTHER ARTS**

This course/seminar aims to consider the aesthetic debate on the relationship between literature and other forms of art in different historical periods, as well as to address diverse instances and variations of this relationship - from the "mutual illumination of the arts" to forms of direct transposition, transformation and even the emergence of relatively novel modes of expression - through the study of concrete examples. Special attention will be given to both the content and the physical, technological and material aspects of the artistic object(s). Discussion on the notion of Art in general will be central as well.

Pre-requisite: None

#### **PORT7800 PORTUGAL IN THE ASIA-PACIFIC REGION**

A discipline covering aspects of the history of the Portuguese in Asia and Southeast and East Asia, beginning in the 16th century and covering the establishment of the Estado da Índia, and the foundation of Macao and its development during four centuries.

Pre-requisite: None

#### **PORT7803 RELATIONS BETWEEN CHINA AND THE PORTUGUESE-SPEAKING COUNTRIES**

This discipline covers aspects of history of the relations between the modern Portuguese-speaking countries and China, attending to the historical origins of these links, covering pre-

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20th century links within the Portuguese colonies and the development and the nature of 20th century and current links.

Pre-requisite: None

### **PORT7990 THESIS**

Under the supervision of a professor, each student designs, carries out and writes up a substantial piece of theoretical research based on an in-depth study of a particular research area, a review of the research literature, the formulation of relevant research questions, and the development of a method of addressing these questions.

The master programme is finished in the fourth semester with an academic thesis in which academic results from the student's own research are presented. The thesis is written in Portuguese and should have between 17 000 and 30 000 words.

Pre-requisite: None

### **PORT8008 ADVANCED RESEARCH AND ACADEMIC WRITING IN PORTUGUESE STUDIES**

The seminar aims to provide students with a toolkit of writing strategies in Portuguese and to enhance their research skills. To build critical thinking and to observe academic conventions in different kinds of textual practice (abstracts, conference papers, journal articles, essays, dissertations, project drafting) are main goals of this course, where students will also learn to access resources such as library websites and online databases. Students will be encouraged to present their own research projects and to engage in reflexive approaches to reading, planning, drafting, revising and reviewing activities, while perfecting their mastery of Portuguese for academic purposes.

Pre-requisite: None

### **PORT8009 CROSS-LANGUAGE TOPICS IN APPLIED LINGUISTICS**

This seminar offers an advanced approach to general principles and practices in the field of applied linguistics, by covering its connections to other related disciplinary areas and addressing current debates in language acquisition, language pedagogy, pragmatics, sociolinguistics, multilingualism, and creolistics. A particular emphasis will be given to language transfer phenomena and interlinguistic issues in Portuguese language-based contexts.

Pre-requisite: None

### **PORT8010 NEW TRENDS IN PORTUGUESE LITERARY AND INTERCULTURAL STUDIES**

This course aims at studying current developments in Portuguese Studies in light of recent postcolonial debates. By addressing the diversity of cultural and artistic production in Portuguese within different geocultural frames (Europe, South America, Africa and the East), the course will stress the symbolic capital of Portuguese as a world language in times of expanding globalization and multicultural complexity.

Pre-requisite: None

### **PORT8999 DOCTORAL THESIS**

For the Applied Linguistics (Portuguese) major, the student is expected to write a final dissertation on a specific topic related to the central contents and aims of the programme, under the supervision of a senior professor of the Department. The thesis must contain an original, relevant contribution for the advancement of knowledge in its scientific area. The text must strictly follow all the norms of a high-quality scientific thesis, both in terms of form and content. It must reflect the mature result of deep knowledge and specialization, the candidate's critical abilities and their outstanding level of formal/academic style in Portuguese. The final document has to be ready for serious scientific debate by international experts. For the Literary and Intercultural Studies (Portuguese) major, the student is expected to write a final dissertation on a specific topic related to the central contents and aims of the programme, under the supervision of a senior professor of the Department. The thesis must contain an original, relevant contribution for the advancement of knowledge in its academic domain. The text must

strictly follow all the norms of a high-quality scientific thesis, both in terms of form and content. It must reflect the mature result of deep knowledge and specialization, the candidate's critical abilities and their outstanding level of formal/academic style in Portuguese. The final document has to be ready for serious scientific debate by international experts.

Pre-requisite: None

## Faculty of Business Administration

### Doctoral Degree Programmes

#### AREAS OF STUDY

- Accounting
- Business Analytics
- Business Economics
- Finance
- Hospitality and Tourism Management
- Integrated Resort and Gaming Management
- Management
- Marketing



## FACULTY OF BUSINESS ADMINISTRATION

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Business Administration

#### Credits

#### Specialization: Accounting

##### Compulsory Courses:

ACCT8013	Empirical Accounting Research I	3
ACCT8014	Empirical Accounting Research II	3
ACCT8999	Doctoral Thesis	18
BAGC8001	Research Ethics	--
FINC8013	Asset Pricing	3

##### Required Electives:

Students are required to take 1 course from the following required electives 3

BECO8010	Microeconomic Theory
BECO8011	Econometric Analysis
BECO8012	Advanced Time Series Analysis
FINC8014	Corporate Finance

#### Specialization: Business Analytics

##### Compulsory Courses:

BAGC8001	Research Ethics	--
ISOM8013	Mathematical Modelling in Decision Sciences	3
ISOM8014	Statistical Methods for Business Analytics	3
ISOM8999	Doctoral Thesis	18

##### Required Electives:

Students are required to take 2 courses from the following required electives 6

BECO8011	Econometric Analysis
BECO8012	Advanced Time Series Analysis
ISOM8011	Quantitative Research Methods for Information Systems
ISOM8012	Advanced Topics in Decision Sciences

#### Specialization: Business Economics

##### Compulsory Courses:

BAGC8001	Research Ethics	--
BECO8010	Microeconomic Theory	3
BECO8011	Econometric Analysis	3
BECO8999	Doctoral Thesis	18

##### Required Electives:

Students are required to take 2 courses from the following required electives 6

BECO8012	Advanced Time Series Analysis
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BECO8013	Selected Topics in Business Economics
FINC8014	Corporate Finance
ISOM8014	Statistical Methods for Business Analytics
ECON8806	Advanced Topics in Macroeconomics

### **Specialization: Finance**

#### **Compulsory Courses:**

BAGC8001	Research Ethics	--
BECO8011	Econometric Analysis	3
FINC8013	Asset Pricing	3
FINC8014	Corporate Finance	3
FINC8999	Doctoral Thesis	18

#### **Required Electives:**

Students are required to take 1 course from the following required electives		3
BECO8010	Microeconomic Theory	
BECO8012	Advanced Time Series Analysis	
FINC8015	Financial Economics	

### **Specialization: Hospitality and Tourism Management**

#### **Compulsory Courses:**

BAGC8001	Research Ethics	--
IRTM8010	Advanced Research Methods in Hospitality and Gaming Management I	3
IRTM8011	Advanced Research Methods in Hospitality and Gaming Management II	3
IRTM8012	Contemporary Research in Hospitality and Tourism Management	3
IRTM8999	Doctoral Thesis	18

#### **Required Electives:**

Students are required to take 1 course from the following required electives		3
IRTM8013	Contemporary Research in Integrated Resort and Gaming Management	
IRTM8014	Research Writing	
MGMT8011	Advanced Research Methods in Management and Marketing I	

### **Specialization: Integrated Resort and Gaming Management**

#### **Compulsory Courses:**

BAGC8001	Research Ethics	--
IRTM8010	Advanced Research Methods in Hospitality and Gaming Management I	3
IRTM8011	Advanced Research Methods in Hospitality and Gaming Management II	3
IRTM8013	Contemporary Research in Integrated Resort and Gaming Management	3
IRTM8999	Doctoral Thesis	18

#### **Required Electives:**

Students are required to take 1 course from the following required electives		3
IRTM8012	Contemporary Research in Hospitality and Tourism Management	

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IRTM8014	Research Writing	
MGMT8011	Advanced Research Methods in Management and Marketing I	

**Specialization: Management**

**Compulsory Courses:**

BAGC8001	Research Ethics	--
MGMT8011	Advanced Research Methods in Management and Marketing I	3
MGMT8012	Advanced Research Methods in Management and Marketing II	3
MGMT8999	Doctoral Thesis	18

**Required Electives:**

Students are required to take 2 courses from 1 of the following groups 6

*Group I*

MGMT8013	Doctoral Seminar in Strategic Management I
MGMT8015	Doctoral Seminar in Strategic Management II

*Group II*

MGMT8014	Doctoral Seminar in Organizational Behavior and Human Resource Management I
MGMT8016	Doctoral Seminar in Organizational Behavior and Human Resource Management II

**Specialization: Marketing**

BAGC8001	Research Ethics	--
MGMT8011	Advanced Research Methods in Management and Marketing I	3
MGMT8012	Advanced Research Methods in Management and Marketing II	3
MKTG8011	Doctoral Seminar in Marketing Research	3
MKTG8012	Doctoral Seminar in Marketing Theories	3
MKTG8999	Doctoral Thesis	18

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**Grand Total:** 30

In addition to the above courses and thesis requirements, every student is required to complete the following requirements:

- Qualifying Examination
- Thesis Proposal Assessment
- Paper Presentation at Conferences

**Note:**

1. If necessary, supervisors may advise their students to enroll additional courses which are not listed above in order to make up their deficiency.
2. Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

# Doctoral Degree Programmes

## Doctor of Business Administration

	Credits
<b>Compulsory Courses:</b>	
BAGC8300 Research Method for Business and Management Research	3
BAGC8301 Research Writing and Ethics	3
ISOM8350 Statistical Analysis for Business and Management Research	3
MGMT8300 Leadership and Organizational Change	3
BAGC8320 Residential Workshop I	1
BAGC8322 Residential Workshop II	4
BAGC8397 Doctoral Thesis	18
<b>Required Electives:</b>	
Students are required to take 4 courses from the following required electives	12
FINC8350 Contemporary Issues in International Financial Management	
FINC8351 Project Management	
IRTM8350 Contemporary Issues in International Integrated Resort Management	
ISOM8300 Technology Advancement and Application for Business Management	
MGMT8350 Cross-cultural Business Strategy	
MKTG8350 International Marketing	
<b>Grand Total:</b>	<b>47</b>

### Note:

Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

## FACULTY OF BUSINESS ADMINISTRATION

# Master's Degree Programmes

## Executive Master of Business Administration

		Credits
<b>Compulsory Courses:</b>		
ACCT7300	Financial Statement Analysis	2
ACCT7301	Corporate Financial Strategy	2
MGMT7300	Management of Organizations and Culture	2
BAGC7300	Innovation and Entrepreneurship	2
MKTG7300	International Marketing Strategy	2
ISOM7300	Project Management Strategy	2
MGMT7301	Strategic Management	2
MGMT7350	Leadership and Organizational Change	2
BAGC7301	Study Trip Group Report	3
BAGC7498	Project Report	6
<b>Required Electives:</b>		
Students are required to take 5 courses from the following required electives*		10
ISOM7350	Digital Strategy for Blockchain and Fintech Development	
ACCT7350	Corporate Governance and Social Responsibility	
ACCT7351	International Financial Management Strategy	
MGMT7351	Global Business and Strategy	
IRTM7350	Strategic Practice in Integrated Resort Management	
ISOM7351	Logistics and Supply Chain Management	
BECO7350	Regional Economies and Development Strategy	
BAGC7350	Risk and Crisis Management Strategy	
BAGC7351	Business Research Methods	
<b>Grand Total:</b>		<b>35</b>

\* The above courses will be offered subject to the number of student enrolment and the availability of instructors.

### Note:

Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

# Master's Degree Programmes

## Master of Business Administration

		Credits
<b>Compulsory Courses:</b>		
BECO7011	Economics for Business	3
ISOM7012	Statistical Analysis and Applications	1.5
ACCT7018	Accounting for Decision Making	3
ISOM7013	Information Management and Digital Innovation	3
FINC7011	Managerial Finance	3
MKTG7010	Marketing Management	3
MGMT7032	Human Resources Management	3
MGMT7011	Strategic Management	3
MGMT7012	Ethics and Leadership in Organizations	3
MGMT7013	Entrepreneurship	1.5
MGMT7014	Business Consultancy Methods	3
MGMT7010	Organizational Behavior	3
BAGC7991	Project Report	6
<b>Required Electives:</b>		
Students are required to take 2 courses from the following required electives*		6
MKTG7030	Consumer Behavior	
MGMT7037	Global Business	
ISOM7030	Service Operations	
MKTG7032	Advances in Marketing Studies	
MGMT7036	Advances in Management Studies	
BAGC7011	Research Methods	
MKTG7033	Marketing Analytics	
<b>Grand Total:</b>		<b>45</b>

\* The above courses will be offered subject to the number of student enrolment and the availability of instructors.

**Note:**

1. ALL courses listed in this programme must be successfully completed for graduation. Failure to complete any compulsory course will require that course to be successfully completed in the subsequent year.
2. Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

## FACULTY OF BUSINESS ADMINISTRATION

**Master's Degree Programmes****Master of Science**

- **Accounting**

	<b>Credits</b>
<b>Compulsory Courses:</b>	
ACCT7012 Fundamentals of Accounting	3
ACCT7013 Financial Reporting	3
ACCT7015 Management Accounting	3
ACCT7017 Financial Management	3
ACCT7055 Auditing and Assurance	3
ACCT7056 Taxation	3
ACCT7991 Project Report	6
<b>Required Electives:</b>	
Students are required to take 4 courses from the following required electives	12
ACCT7014 Business Law	
ACCT7050 Advanced Financial Reporting	
ACCT7051 Corporate Governance and Social Responsibility	
ACCT7052 Performance Management and Control Systems	
ACCT7053 Financial Risk Management	
ACCT7060 Financial Statement Analysis for Decision Making	
FINC7054 Introduction to Modern Financial Technology	
ISOM7013 Information Management and Digital Innovation	
<b>Grand Total:</b>	<b>36</b>

**Note:**

1. Students can find out more about the professional accounting qualifications on the FBA website (<https://fba.um.edu.mo/aim/accreditations>).
2. Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

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FACULTY OF BUSINESS ADMINISTRATION

# Master's Degree Programmes

Master of Science

- Business Analytics

		Credits
<b>Compulsory Courses:</b>		
ISOM7015	Fundamentals of Business Analytics	3
ISOM7016	Statistics for Business Analytics	3
ISOM7021	Business Modeling and Decision Analysis	3
ISOM7022	Database and Big Data Management	3
ISOM7031	Machine Learning with Business Applications	3
ISOM7032	Social Network and Textual Analysis	3
ISOM7098	Project Report	6
<b>Required Electives:</b>		
Students are required to take 4 courses from the following required electives		12
FINC7054	Introduction to Modern Financial Technology	
ISOM7013	Information Management and Digital Innovation	
ISOM7030	Service Operations	
ISOM7033	Tourism Analytics	
ISOM7041	Econometrics and High-Dimensional Data Analysis	
MKTG7033	Marketing Analytics	
<b>Grand Total:</b>		<b>36</b>

Note:  
Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.



FACULTY OF BUSINESS ADMINISTRATION

# Master's Degree Programmes

## Master of Science

- Finance

		Credits
<b>Compulsory Courses:</b>		
FINC7010	Corporate Finance	3
BECO7010	Statistics and Financial Econometrics	3
FINC7024	Investments and Portfolio Management	3
FINC7057	Financial Markets and Institutions	3
<b>Required Electives* (choose 6 out of the following 9):</b>		18
FINC7058	International Finance and Derivatives	
FINC7026	International Banking and Bank Management	
FINC7035	Financial Risk Management	
FINC7041	Advanced Topics in Finance	
FINC7054	Introduction to Modern Financial Technology	
FINC7055	Wealth Management	
FINC7056	Macao's Economy	
ACCT7051	Corporate Governance and Social Responsibility	
MGMT7012	Ethics and Leadership in Organizations	
FINC7991	Project Report	6
<b>Grand Total:</b>		<b>36</b>

\* These courses will be offered subject to the number of student enrolment and the availability of instructors.

**Note:**

Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changes in its regulations, rules and procedures from time to time as it sees fit.

# Master's Degree Programmes

## Master of Science

### • International Integrated Resort Management

		Credits
<b>Compulsory Courses:</b>		
IRTM7010	International Integrated Resorts Management	3
IRTM7011	International Hospitality Marketing Management	3
IRTM7035	Gaming and Casino Operation Management	3
IRTM7013	Managerial Finance in Integrated Resorts	3
IRTM7014	Integrated Resorts Management Internship*	3
IRTM7051	Research Methods	3
IRTM7991	Project Report	6
<b>Required Electives** (choose 4 out of the following 20):</b>		12
CCBS7002	Cognitive Neuroscience***	
CCBS7006	Neuroeconomics***	
IRTM7031	Event and Entertainment Management	
IRTM7032	Food and Beverage Management	
IRTM7033	Lodging Management	
IRTM7034	Hotel Revenue Management	
IRTM7012	Managing Human Resources and Personnel	
	Psychology in Integrated Resorts	
IRTM7036	Cross Cultural Gambling Psychology	
IRTM7037	Travel and Tourism Management	
IRTM7038	Retail Management in Integrated Resorts	
IRTM7039	Service Quality Management in Integrated Resorts	
IRTM7040	Special Topics in Integrated Resorts	
IRTM7041	Strategic Management in Hospitality Industry	
IRTM7042	Direct Marketing and Customer Relationship	
	Management in Integrated Resorts	
IRTM7052	Digital Innovations in Smart Tourism	
ISOM7015	Fundamentals of Business Analytics***	
ISOM7030	Service Operations***	
ISOM7033	Tourism Analytics***	
MGMT7037	Global Business***	
PSYC7708	Behavioral Addiction***	
<b>Grand Total:</b>		<b>36</b>

\* For students who have less than 2 years supervisory or managerial working experiences, they are required to undertake at least 560 hours internship programme. Students who are working full time with at least 2 years supervisory or managerial experience at the time of application may be able to exempt the internship course upon showing adequate justification to do so to the University. Students who are working full time but without 2 years of supervisory or managerial experience at the time of application may be able to waive from the internship course upon showing adequate justification to do so to the

University. All other exempt or waive cases will be subjected to special approval on a case by case basis.

- \*\* The elective courses are offered subject to the number of student enrolment and the availability of instructors.
- \*\*\* Students may enrol these MBA / MSc in Business Analytics / MSc in Cognitive Neuroscience courses as electives, and it is subject to class quota upon course enrolment and availability of instructors.

Note:

1. All courses must be successfully completed and students are required to achieve a cumulative GPA of 2.7 or above in order to graduate.
2. Unless otherwise specified, the above information is accurate as at 13 June 2025. The University has the right to make changed in its regulations, rules and procedures from time to time as it sees fit.

# Bachelor's Degree Programmes

## Bachelor of Business Administration

<b>Year I</b>	<b>Credits</b>
BECO1000 Principles of Microeconomics	3
BECO1001 Principles of Macroeconomics	3
GEST1001 Quantitative Reasoning for Business	3
ISOM1001 Contemporary Information Systems for Organizations	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Languages and Skills – Information Technology Course	3
Two General Education courses	6
<b>Total Credits:</b>	<b>35</b>

<b>Year II</b>	<b>Credits</b>
ACCT1000 Principles of Financial Accounting	3
ACCT2000 Management Accounting I	3
FINC2000 Financial Management	3
ISOM1005 Introduction to Business Intelligence and Information	3
ISOM2002 Statistics and Data Analysis	3
MGMT2000 Business Communications	3
MGMT2001 Organizational Behavior	3
MKTG2000 Principles of Marketing	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
One General Education course	3
<b>Total Credits:</b>	<b>31</b>

<b>Year III</b>	<b>Credits</b>
ISOM3030 Quantitative Decision Analysis	3
MGMT3000 Global Business Environment	3
MGMT3003 Strategic Management	3
MGMT3004 Research Methods	3
MGMT3009 Business Ethics and Corporate Social Responsibility	3
Two General Education courses	6
Three courses selected from the Business Administration Required Electives	9
<b>Total Credits:</b>	<b>30</b>

<b>Year IV</b>	<b>Credits</b>
ISOM4006 Project and Quality Management	3
Two General Education courses	6
Four courses selected from the Business Administration Required Electives	12
Three bachelor's degree courses	9
<b>Total Credits:</b>	<b>30</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>126</b>

### Bachelor of Business Administration Required Electives

Select **seven** from the following:

BECO3004	Economics of Tourism
BECO3006	Money and Banking
BECO4005	Applied Economics for Leisure Industries
BECO4014	International Banking
BECO4015	Managerial Economics for Small and Medium-sized Retailing Enterprises
FINC4004	Mergers and Acquisitions
FINC4008	International Finance and Global Issues
MGMT3007	Organizational Change and Development
MGMT3008	Quality Management
MGMT4001	Global Human Resource Management
MGMT4002	Asian Business
MGMT4003	Cross-Cultural Communication in Business
MGMT4006	Entrepreneurship Management
MGMT4011	Employee Relations, Safety and Health
MGMT4012	Strategic Human Resource Management
MGMT4015	Leadership
MKTG4003	Services Marketing
MKTG4005	Retail Strategy
MKTG4012	Customer Relationship Management
MKTG4014	Brand Management
MKTG4018	Leisure and Lifestyle Marketing

\* A student can test out of some of the Languages and Skills courses if he/she obtains certain examination scores/qualifications, please visit the Registry homepage for more information (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>).

§ Subject to the actual courses offered, study plan arrangement of that academic year will be announced in the FBA website (<https://fba.um.edu.mo/students/study-plans/>).

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# Bachelor's Degree Programmes

## Bachelor of Business Administration

### • Business Economics

<b>Year I</b>		<b>Credits</b>
BECO1000	Principles of Microeconomics	3
BECO1001	Principles of Macroeconomics	3
GEST1001	Quantitative Reasoning for Business	3
ISOM1001	Contemporary Information Systems for Organizations	3
MGMT1000	Principles of Business Management	3
Community and Peer Education Courses		2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*		3
Languages and Skills – English Language Courses or Free Electives*		6
Languages and Skills – Information Technology Course		3
Two General Education courses		6
<b>Total Credits:</b>		<b>35</b>

<b>Year II</b>		<b>Credits</b>
ACCT1000	Principles of Financial Accounting	3
ACCT2000	Management Accounting I	3
FINC2000	Financial Management	3
ISOM1005	Introduction to Business Intelligence and Information	3
ISOM2002	Statistics and Data Analysis	3
MGMT2000	Business Communications	3
MGMT2001	Organizational Behavior	3
MKTG2000	Principles of Marketing	3
Community and Peer Education Courses		1
Languages and Skills – English Language Course or Free Elective*		3
One General Education course		3
<b>Total Credits:</b>		<b>31</b>

<b>Year III</b>		<b>Credits</b>
BECO3008	Intermediate Microeconomics	3
BECO3009	Intermediate Macroeconomics	3
BECO3010	Global Economic Issues and Business Implications	3
BECO4000	Analysis of Economic Indicators	3
BECO4003	Introduction to Econometrics	3
ISOM3030	Quantitative Decision Analysis	3
MGMT3003	Strategic Management	3
MGMT3009	Business Ethics and Corporate Social Responsibility	3

Two General Education courses	6
<b>Total Credits:</b>	<b>30</b>

<b>Year IV</b>	<b>Credits</b>
BECO4004 Applied Econometrics	3
BECO4006 The Economics of Development	3
BECO4018 Economic Analysis of Investment Projects	3
Two General Education courses	6
Two courses selected from the Business Economics Required Electives	6
Three bachelor's degree courses	9
<b>Total Credits:</b>	<b>30</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>126</b>

### Business Economics Required Electives

Select **one** from the following:

BECO3001	Public Economics and Finance
BECO4007	History of Economic Thought
BECO4008	Financial Economics

Select **one** from the following:

BECO3004	Economics of Tourism
BECO4005	Applied Economics for Leisure Industries
BECO4015	Managerial Economics for Small and Medium-sized Retailing Enterprises

\* A student can test out of some of the Languages and Skills courses if he/she obtains certain examination scores/qualifications, please visit the Registry homepage for more information (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>).

§ Subject to the actual courses offered, study plan arrangement of that academic year will be announced in the FBA website (<https://fba.um.edu.mo/students/study-plans/>).

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# Bachelor's Degree Programmes

## Bachelor of Business Administration

### • Financial Controllership

<b>Year I</b>		<b>Credits</b>
BECO1000	Principles of Microeconomics	3
BECO1001	Principles of Macroeconomics	3
GEST1001	Quantitative Reasoning for Business	3
ISOM1001	Contemporary Information Systems for Organizations	3
MGMT1000	Principles of Business Management	3
Community and Peer Education Courses		2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*		3
Languages and Skills – English Language Courses or Free Electives*		6
Languages and Skills – Information Technology Course		3
Two General Education courses		6
<b>Total Credits:</b>		<b>35</b>

<b>Year II</b>		<b>Credits</b>
ACCT1000	Principles of Financial Accounting	3
ACCT2000	Management Accounting I	3
FINC2000	Financial Management	3
ISOM1005	Introduction to Business Intelligence and Information	3
ISOM2002	Statistics and Data Analysis	3
MGMT2000	Business Communications	3
MGMT2001	Organizational Behavior	3
MKTG2000	Principles of Marketing	3
Community and Peer Education Courses		1
Languages and Skills – English Language Course or Free Elective*		3
One General Education course		3
<b>Total Credits:</b>		<b>31</b>

<b>Year III</b>		<b>Credits</b>
ACCT2004	Intermediate Accounting	3
ACCT3002	Management Accounting II	3
FINC2001	Advanced Financial Management	3
FINC3002	Theory of Finance	3
ISOM3030	Quantitative Decision Analysis	3
MGMT3000	Global Business Environment	3
MGMT3003	Strategic Management	3
MGMT3009	Business Ethics and Corporate Social Responsibility	3



Two General Education courses	6
<b>Total Credits:</b>	<b>30</b>

<b>Year IV</b>	<b>Credits</b>
ACCT3009 Financial Statement Analysis	3
ISOM3031 Forecasting Models in Business	3
ISOM4006 Project and Quality Management	3
Two General Education courses	6
Two courses selected from the Financial Controllership Required Electives	6
Three bachelor's degree courses	9
<b>Total Credits:</b>	<b>30</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>126</b>

### Financial Controllership Required Electives

Select **two** from the following:

FINC3003	Financial Markets and Institutions
FINC4008	International Finance and Global Issues
ISOM3035	Operations Management
ISOM3038	Financial Technology
MGMT4001	Global Human Resource Management

\* A student can test out of some of the Languages and Skills courses if he/she obtains certain examination scores/qualifications, please visit the Registry homepage for more information (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>).

§ Subject to the actual courses offered, study plan arrangement of that academic year will be announced in the FBA website (<https://fba.um.edu.mo/students/study-plans/>).

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# Bachelor's Degree Programmes

## Bachelor of Business Administration

### • Global Business Management

<b>Year I</b>	<b>Credits</b>
BECO1000 Principles of Microeconomics	3
BECO1001 Principles of Macroeconomics	3
GEST1001 Quantitative Reasoning for Business	3
ISOM1001 Contemporary Information Systems for Organizations	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Languages and Skills – Information Technology Course	3
Two General Education courses	6
<b>Total Credits:</b>	<b>35</b>

<b>Year II</b>	<b>Credits</b>
ACCT1000 Principles of Financial Accounting	3
ACCT2000 Management Accounting I	3
FINC2000 Financial Management	3
ISOM1005 Introduction to Business Intelligence and Information	3
ISOM2002 Statistics and Data Analysis	3
MGMT2000 Business Communications	3
MGMT2001 Organizational Behavior	3
MKTG2000 Principles of Marketing	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
One General Education course	3
<b>Total Credits:</b>	<b>31</b>

<b>Year III ^</b>	<b>Credits</b>
ISOM3030 Quantitative Decision Analysis	3
MGMT3000 Global Business Environment	3
MGMT3003 Strategic Management	3
MGMT3004 Research Methods	3
Three General Education courses	9
Two courses selected from the Global Business Management Required Electives	6

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One bachelor's degree course	3
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<b>Total Credits:</b>	<b>30</b>
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<b>Year IV</b>	<b>Credits</b>
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ISOM4006	Project and Quality Management	3
MGMT3001	International Management	3
MGMT3002	Competitive Advantage	3
MGMT3009	Business Ethics and Corporate Social Responsibility	3
MGMT4000	Global Strategic Management	3
MGMT4002	Asian Business	3
MKTG4000	International Marketing	3

One General Education course	3
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Two bachelor's degree courses	6
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<b>Total Credits:</b>	<b>30</b>
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	<b>Credits</b>
<b>Grand Total:</b>	<b>126</b>

### Global Business Management Required Electives

Select **two** from the following:

- MGMT4001 Global Human Resource Management
- MGMT4003 Cross-Cultural Communication in Business
- MGMT4005 Management of Foreign Affiliates
- MGMT4006 Entrepreneurship Management
- MGMT4016 Innovation Management

\* A student can test out of some of the Languages and Skills courses if he/she obtains certain examination scores/qualifications, please visit the Registry homepage for more information (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>).

^ Students are required to participate in exchange programme in the second semester of their third year of study. Courses for exemption should be pre-approved.

§ Subject to the actual courses offered, study plan arrangement of that academic year will be announced in the FBA website (<https://fba.um.edu.mo/students/study-plans/>).

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# Bachelor's Degree Programmes

## Bachelor of Business Administration

### • Human Resource Management

<b>Year I</b>	<b>Credits</b>
BECO1000 Principles of Microeconomics	3
BECO1001 Principles of Macroeconomics	3
GEST1001 Quantitative Reasoning for Business	3
ISOM1001 Contemporary Information Systems for Organizations	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Languages and Skills – Information Technology Course	3
Two General Education courses	6
<b>Total Credits:</b>	<b>35</b>

<b>Year II</b>	<b>Credits</b>
ACCT1000 Principles of Financial Accounting	3
ACCT2000 Management Accounting I	3
FINC2000 Financial Management	3
ISOM1005 Introduction to Business Intelligence and Information	3
ISOM2002 Statistics and Data Analysis	3
MGMT2000 Business Communications	3
MGMT2001 Organizational Behavior	3
MKTG2000 Principles of Marketing	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
One General Education course	3
<b>Total Credits:</b>	<b>31</b>

<b>Year III</b>	<b>Credits</b>
ISOM3030 Quantitative Decision Analysis	3
MGMT3000 Global Business Environment	3
MGMT3003 Strategic Management	3
MGMT3004 Research Methods	3
MGMT3005 Human Resource Management	3
MGMT3006 Human Resource Planning and Staffing	3
MGMT3009 Business Ethics and Corporate Social Responsibility	3
MGMT4009 Training and Development	3

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Two General Education courses 6

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**Total Credits: 30**

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**Year IV Credits**

ISOM4006 Project and Quality Management 3

MGMT4010 Performance and Compensation Management 3

Two General Education courses 6

Three courses selected from the Human Resource Management Required Electives 9

Three bachelor's degree courses 9

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**Total Credits: 30**

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**GRAND TOTAL: 126**

### Human Resource Management Required Electives

Select **three** from the following:

IRTM4003 Professional Development in Convention and Hospitality Industry

MGMT3007 Organizational Change and Development

MGMT3008 Quality Management

MGMT4001 Global Human Resource Management

MGMT4003 Cross-Cultural Communication in Business

MGMT4011 Employee Relations, Safety and Health

MGMT4012 Strategic Human Resource Management

MGMT4014 Contemporary Issues in Human Resource Management

MGMT4015 Leadership

\* A student can test out of some of the Languages and Skills courses if he/she obtains certain examination scores/qualifications, please visit the Registry homepage for more information (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>).

§ Subject to the actual courses offered, study plan arrangement of that academic year will be announced in the FBA website (<https://fba.um.edu.mo/students/study-plans/>).

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# Bachelor's Degree Programmes

## Bachelor of Business Administration

### • Marketing

<b>Year I</b>		<b>Credits</b>
BECO1000	Principles of Microeconomics	3
BECO1001	Principles of Macroeconomics	3
GEST1001	Quantitative Reasoning for Business	3
ISOM1001	Contemporary Information Systems for Organizations	3
MGMT1000	Principles of Business Management	3
Community and Peer Education Courses		2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*		3
Languages and Skills – English Language Courses or Free Electives*		6
Languages and Skills – Information Technology Course		3
Two General Education courses		6
<b>Total Credits:</b>		<b>35</b>

<b>Year II</b>		<b>Credits</b>
ACCT1000	Principles of Financial Accounting	3
ACCT2000	Management Accounting I	3
FINC2000	Financial Management	3
ISOM1005	Introduction to Business Intelligence and Information	3
ISOM2002	Statistics and Data Analysis	3
MGMT2000	Business Communications	3
MGMT2001	Organizational Behavior	3
MKTG2000	Principles of Marketing	3
Community and Peer Education Courses		1
Languages and Skills – English Language Course or Free Elective*		3
One General Education course		3
<b>Total Credits:</b>		<b>31</b>

<b>Year III</b>		<b>Credits</b>
ISOM3030	Quantitative Decision Analysis	3
MGMT3000	Global Business Environment	3
MGMT3003	Strategic Management	3
MGMT3009	Business Ethics and Corporate Social Responsibility	3
MKTG3000	Consumer Behavior	3
MKTG3002	Marketing Research	3
MKTG4000	International Marketing	3

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Three General Education courses	9
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<b>Total Credits:</b>	<b>30</b>
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<b>Year IV</b>	<b>Credits</b>
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ISOM4006	Project and Quality Management	3
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MKTG4001	Integrated Marketing Communications	3
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MKTG4002	Marketing Strategy	3
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One General Education course	3
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Three courses selected from the Marketing Required Electives	9
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Three bachelor's degree courses	9
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<b>Total Credits:</b>	<b>30</b>
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<b>GRAND TOTAL:</b>	<b>Credits</b> <b>126</b>
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### Marketing Required Electives

Select **three** from the following:

MKTG3001	Business-to-business Marketing
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MKTG4003	Services Marketing
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MKTG4005	Retail Strategy
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MKTG4011	Pricing Strategy
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MKTG4012	Customer Relationship Management
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MKTG4013	Digital Marketing
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MKTG4014	Brand Management
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MKTG4017	Special Topics in Marketing
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MKTG4019	Analytics for Marketing Decisions
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# Bachelor's Degree Programmes

## Bachelor of Science

### • Accounting

<b>Year I</b>		<b>Credits</b>
ACCT1000	Principles of Financial Accounting	3
BECO1000	Principles of Microeconomics	3
GEST1001	Quantitative Reasoning for Business	3
MGMT1000	Principles of Business Management	3
Community and Peer Education Courses		3
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*		3
Languages and Skills – English Language Courses or Free Electives*		6
Languages and Skills – Information Technology Course		3
Three General Education courses		9
<b>Total Credits:</b>		<b>36</b>

<b>Year II</b>		<b>Credits</b>
ACCT2000	Management Accounting I	3
ACCT2003	Business Law	3
ACCT2004	Intermediate Accounting	3
ACCT3002	Management Accounting II	3
BECO1001	Principles of Macroeconomics	3
FINC2000	Financial Management	3
FINC2001	Advanced Financial Management	3
FINC3003	Financial Markets and Institutions	3
ISOM2002	Statistics and Data Analysis	3
Languages and Skills – English Language Course or Free Elective*		3
One bachelor's degree course		3
<b>Total Credits:</b>		<b>33</b>

<b>Year III</b>		<b>Credits</b>
ACCT3004	Advanced Financial Accounting	3
ACCT3005	Accounting Information Systems	3
ACCT3009	Financial Statement Analysis	3
ISOM3000	Database Management	3
MGMT3009	Business Ethics and Corporate Social Responsibility	3
MKTG2000	Principles of Marketing	3
Three General Education courses		9



One course selected from the Accounting Required Electives Group A	3
<b>Total Credits:</b>	<b>30</b>

<b>Year IV</b>	<b>Credits</b>
ACCT4000 Auditing I	3
ACCT4006 Auditing II	3
ACCT4007 Corporate Governance	3
ACCT4010 Taxation in Macao and Hong Kong	3
ACCT4011 International Taxation	3
MGMT3003 Strategic Management	3
One General Education course	3
One course selected from the Accounting Required Electives Group B	3
Two bachelor's degree courses	6
<b>Total Credits:</b>	<b>30</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>129</b>

#### Accounting Required Electives Group A

ACCT3006	Internship for Accounting Function I <sup>#</sup> and
ACCT3007	Internship for Accounting Function II <sup>#</sup>
ACCT4001	Accounting Theory
ACCT4008	Management Control Systems

#### Accounting Required Electives Group B

ACCT4004	Financial Accounting in Hospitality and Gaming
ACCT4009	China Tax
ISOM3038	Financial Technology

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# Paired courses ACCT3006 and ACCT3007 each carry 1.5 credits. Both courses must be completed to satisfy the Required Electives requirement.

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# Bachelor's Degree Programmes

## Bachelor of Science

### • Business Intelligence and Data Analytics

<b>Year I</b>	<b>Credits</b>
GEST1001 Quantitative Reasoning for Business	3
ISOM1004 Applied Calculus	3
ISOM1005 Introduction to Business Intelligence and Information	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Languages and Skills – Information Technology Course	3
Two courses selected from the Business Intelligence and Data Analytics Required Electives List A	6
One bachelor's degree course	3
<b>Total Credits:</b>	<b>32</b>

<b>Year II</b>	<b>Credits</b>
ISOM2002 Statistics and Data Analysis	3
ISOM2005 Linear Algebra	3
ISOM2007 Programming for Business Analytics	3
ISOM3000 Database Management	3
ISOM3002 Analysis and Design of Information Systems	3
ISOM3016 Computer Networking for Business	3
ISOM3028 Advanced Computer Programming	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
Three General Education courses	9
<b>Total Credits:</b>	<b>34</b>

<b>Year III</b>	<b>Credits</b>
ISOM3012 Web Site Design and Internet Business Applications	3
ISOM3015 Big Data Management	3
ISOM3018 Business Data Mining and Visualization	3
ISOM3030 Quantitative Decision Analysis	3
ISOM3036 Cyber Security and Blockchain	3
ISOM3039 Statistics for Business Applications	3
One course selected from the Business Intelligence and Data Analytics Required Electives List A	3

One course selected from the Business Intelligence and Data Analytics Required Electives List B 3

Two General Education courses 6

**Total Credits: 30**

**Year IV Credits**

ISOM3035	Operations Management	3
ISOM4005	Business Project Management	3
ISOM4007	Graduation Project	3
ISOM4008	Machine Learning for Business Intelligence	3

Two General Education courses 6

Two bachelor's degree courses 6

**Total Credits: 24**

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

**Business Intelligence and Data Analytics Required Electives List A**

Select **three** from the following:

ACCT1000	Principles of Financial Accounting
BECO1000	Principles of Microeconomics
BECO1001	Principles of Macroeconomics
FINC2000	Financial Management
ISOM2006	E-Commerce and M-Commerce Strategies
MGMT1000	Principles of Business Management
MGMT2000	Business Communications
MKTG2000	Principles of Marketing

**Business Intelligence and Data Analytics Required Electives List B**

Select **one** from the following:

ISOM3025	Business Modeling and Simulation
ISOM3031	Forecasting Models in Business
ISOM3037	Internet of Things and Cloud Computing with Business Applications

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## FACULTY OF BUSINESS ADMINISTRATION

# Bachelor's Degree Programmes

## Bachelor of Science

- Finance

Year I	Credits
ACCT1000 Principles of Financial Accounting	3
BECO1000 Principles of Microeconomics	3
BECO1001 Principles of Macroeconomics	3
GEST1001 Quantitative Reasoning for Business	3
ISOM1004 Applied Calculus	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Two General Education courses	6
<b>Total Credits:</b>	<b>35</b>

Year II	Credits
BECO2000 Intermediate Economics	3
BECO2001 Econometrics I	3
FINC2003 Corporate Finance	3
FINC3004 Portfolio Management	3
ISOM2002 Statistics and Data Analysis	3
ISOM2005 Linear Algebra	3
MGMT2000 Business Communications	3
MKTG2000 Principles of Marketing	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
Languages and Skills – Information Technology Course	3
One General Education course	3
<b>Total Credits:</b>	<b>34</b>

Year III	Credits
FINC3000 Derivative Securities	3
FINC3001 Financial Statement Analysis and Valuation	3
FINC4008 International Finance and Global Issues	3
ISOM3029 Computer Programming Using C++	3
MGMT3003 Strategic Management	3
Two courses selected from the Finance Required Electives	6

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Two General Education courses	6
One bachelor's degree course	3
<b>Total Credits:</b>	<b>30</b>

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<b>Year IV</b>	<b>Credits</b>
FINC4009 Financial Modeling	3
FINC4011 Graduation Project on Applied Finance (one-year course)	6
Two courses selected from the Finance Required Electives	6
Two General Education courses	6
Two bachelor's degree courses	6
<b>Total Credits:</b>	<b>27</b>

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<b>Grand Total:</b>	<b>126</b>
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### Finance Required Electives

BECO3006	Money and Banking
BECO3011	Financial Econometrics
BECO4014	International Banking
FINC3002	Theory of Finance
FINC3003	Financial Markets and Institutions
FINC4001	Case Studies in Corporate Finance
FINC4003	Risk and Insurance
FINC4004	Mergers and Acquisitions
FINC4005	Fixed Income Securities
FINC4006	Real Estate Investment and Financing
FINC4007	Behavioral Finance
FINC4010	Bank Management
FINC4012	Financial Risk Management
FINC4013	Advanced Financial Mathematics
FINC4014	Exotic Options and Structured Products
ISOM3033	Advanced Calculus

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## FACULTY OF BUSINESS ADMINISTRATION

# Bachelor's Degree Programmes

## Bachelor of Science

### • Finance with Specialization in Financial Engineering

Year I	Credits
ACCT1000 Principles of Financial Accounting	3
BECO1000 Principles of Microeconomics	3
BECO1001 Principles of Macroeconomics	3
GEST1001 Quantitative Reasoning for Business	3
ISOM1004 Applied Calculus	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Two General Education courses	6
<b>Total Credits:</b>	<b>35</b>

Year II	Credits
BECO2000 Intermediate Economics	3
BECO2001 Econometrics I	3
FINC2003 Corporate Finance	3
FINC3004 Portfolio Management	3
ISOM2002 Statistics and Data Analysis	3
ISOM2005 Linear Algebra	3
MGMT2000 Business Communications	3
MKTG2000 Principles of Marketing	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
Languages and Skills – Information Technology Course	3
One General Education course	3
<b>Total Credits:</b>	<b>34</b>

Year III	Credits
BECO3011 Financial Econometrics	3
FINC3000 Derivative Securities	3
FINC4005 Fixed Income Securities	3
FINC4008 International Finance and Global Issues	3
ISOM3029 Computer Programming Using C++	3
ISOM3033 Advanced Calculus	3
MGMT3003 Strategic Management	3
Two General Education courses	6

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One bachelor's degree course	3
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<b>Total Credits:</b>	<b>30</b>
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<b>Year IV</b>	<b>Credits</b>
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FINC4011	Graduation Project on Applied Finance (one-year course)	6
FINC4012	Financial Risk Management	3
FINC4014	Exotic Options and Structured Products	3

One course selected from the Finance Required Electives	3
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Two General Education courses	6
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Two bachelor's degree courses	6
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<b>Total Credits:</b>	<b>27</b>
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<b>Grand Total:</b>	<b>126</b>
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### Finance Required Electives

BECO3006	Money and Banking
BECO4014	International Banking
FINC3002	Theory of Finance
FINC3003	Financial Markets and Institutions
FINC4001	Case Studies in Corporate Finance
FINC4003	Risk and Insurance
FINC4004	Mergers and Acquisitions
FINC4006	Real Estate Investment and Financing
FINC4007	Behavioral Finance
FINC4010	Bank Management
FINC4013	Advanced Financial Mathematics

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## FACULTY OF BUSINESS ADMINISTRATION

# Bachelor's Degree Programmes

## Bachelor of Science

- International Integrated Resort Management with Specialization in Convention and Hospitality Management

<b>Year I</b>	<b>Credits</b>
ACCT1000 Principles of Financial Accounting	3
BECO1000 Principles of Microeconomics	3
GEST1001 Quantitative Reasoning for Business	3
IRTM1000 Introduction to Integrated Resort Management	3
IRTM2000 Introduction to Gaming Management	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives *	6
Languages and Skills – Information Technology Course	3
One General Education course	3
<b>Total Credits:</b>	<b>35</b>

<b>Year II</b>	<b>Credits</b>
ACCT2000 Management Accounting I	3
BECO1001 Principles of Macroeconomics	3
FINC2000 Financial Management	3
IRTM3002 Convention and Exhibition Management	3
IRTM3004 The Macao Gaming and Hospitality Industries	3
IRTM4001 Resort Marketing and Promotion	3
ISOM2002 Statistics and Data Analysis	3
MGMT2000 Business Communications	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
Two General Education courses	6
One bachelor's degree course	3
<b>Total Credits:</b>	<b>37</b>

<b>Year III</b>	<b>Credits</b>
IRTM3001 Quality Service Management	3
IRTM3005 Festival and Event Management	3
IRTM3006 Human Resource Management in Integrated Resort	3
IRTM3009 Food and Beverage Management	3
IRTM3014 Hospitality and Tourism Law	3

IRTM3017	Accommodation, Facilities and Security Management	3
IRTM4002	Global Issues in Resort and Gaming Management	3
One course selected from the Convention and Hospitality Management Required Electives		3
Two General Education courses		6
Two bachelor's degree courses		6
<b>Total Credits:</b>		<b>36</b>

<b>Year IV</b>		<b>Credits</b>
IRTM4000	Strategic Management for the Resort and Gaming Industries	3
IRTM4006	Convention and Hospitality Management Internship **	3
IRTM4007	Graduation Project on Hospitality Management ***	3
One course selected from the Common Required Electives		3
Two General Education courses		6
<b>Total Credits:</b>		<b>18</b>

		<b>Credits</b>
<b>Grand Total:</b>		<b>126</b>

### Convention and Hospitality Management Required Electives

IRTM2001	Psychology of Gambling
IRTM3003	Casino Management
IRTM4003	Professional Development in Convention and Hospitality Industry
ISOM3030	Quantitative Decision Analysis

### Common Required Electives

BECO4005	Applied Economics for Leisure Industries
IRTM3000	Social and Economic Impacts of Gambling
IRTM3007	Technology and Innovation in the Resort and Gaming Industries
IRTM3008	Travel and Tourism Management
IRTM3010	Selected Topics in Human Resource Management
IRTM3015	Revenue Management
IRTM4008	Questionnaire Design and Survey Data Analysis
IRTM4009	Special Topics in Hotel and Resort Management

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# Bachelor's Degree Programmes

## Bachelor of Science

- **International Integrated Resort Management with Specialization in Gaming Management**

<b>Year I</b>	<b>Credits</b>
ACCT1000 Principles of Financial Accounting	3
BECO1000 Principles of Microeconomics	3
GEST1001 Quantitative Reasoning for Business	3
IRTM1000 Introduction to Integrated Resort Management	3
IRTM2000 Introduction to Gaming Management	3
MGMT1000 Principles of Business Management	3
Community and Peer Education Courses	2
Languages and Skills – Chinese/Portuguese Language Course or Free Elective*	3
Languages and Skills – English Language Courses or Free Electives*	6
Languages and Skills – Information Technology Course	3
One General Education course	3
<b>Total Credits:</b>	<b>35</b>

<b>Year II</b>	<b>Credits</b>
ACCT2000 Management Accounting I	3
BECO1001 Principles of Macroeconomics	3
FINC2000 Financial Management	3
IRTM2001 Psychology of Gambling	3
IRTM3004 The Macao Gaming and Hospitality Industries	3
IRTM4001 Resort Marketing and Promotion	3
ISOM2002 Statistics and Data Analysis	3
MGMT2000 Business Communications	3
Community and Peer Education Courses	1
Languages and Skills – English Language Course or Free Elective*	3
Three General Education courses	9
<b>Total Credits:</b>	<b>37</b>

<b>Year III</b>	<b>Credits</b>
ACCT4004 Financial Accounting in Hospitality and Gaming	3
IRTM3003 Casino Management	3
IRTM3006 Human Resource Management in Integrated Resort	3
IRTM3012 Gaming Law	3
IRTM3016 Casino Marketing	3
IRTM3018 Casino Mathematics	3
IRTM4002 Global Issues in Resort and Gaming Management	3

One course selected from the Gaming Management Required Electives	3
One General Education course	3
Three bachelor's degree courses	9
<b>Total credits:</b>	<b>36</b>

<b>Year IV</b>	<b>Credits</b>
IRTM4000 Strategic Management for the Resort and Gaming Industries	3
IRTM4004 Gaming Management Internship	3
IRTM4005 Graduation Project on Gaming Management	3
One course selected from the Common Required Electives	3
Two General Education courses	6
<b>Total Credits:</b>	<b>18</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>126</b>

### Gaming Management Required Electives

IRTM3001	Quality Service Management
IRTM3005	Festival and Event Management
IRTM3009	Food and Beverage Management

### Common Required Electives

BECO4005	Applied Economics for Leisure Industries
IRTM3000	Social and Economic Impacts of Gambling
IRTM3007	Technology and Innovation in the Resort and Gaming Industries
IRTM3008	Travel and Tourism Management
IRTM3010	Selected Topics in Human Resource Management
IRTM3015	Revenue Management
IRTM4008	Questionnaire Design and Survey Data Analysis
IRTM4009	Special Topics in Hotel and Resort Management

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## Course Description

### **ACCT1000 PRINCIPLES OF FINANCIAL ACCOUNTING**

This course introduces students financial accounting by covering accounting concepts and their applications. Course contents include double entry bookkeeping, transaction analysis, accounting cycle, preparation of financial statements including income statement, balance sheet and cash flow statement, analysis of special accounts such as cash, accounts receivable, inventories, property, plant and equipment, liabilities and shareholders' equity, and the applications of the International Financial Reporting Standards (IFRS) to financial reporting. It focuses on conceptualizing and critically assessing important accounting terminologies, rules, and standards. Students are expected to acquire the balanced accounting techniques and theoretical knowledge through this course. Real business practices will be introduced by guest lecturers from Big4 accounting firms.

Pre-requisite: None

### **ACCT2000 MANAGEMENT ACCOUNTING I**

This is the first course in the Cost/Managerial sequence. It provides an introduction and detailed discussion of Cost Accounting topics such as: Cost terminology, normal costing, job order costing, cost assignment systems, master budgets and flexible budgets for planning and performance evaluation.

Pre-requisite: ACCT1000 Principles of Financial Accounting

### **ACCT2001 INTERMEDIATE ACCOUNTING I**

This is the first course in a three course sequence on Financial Accounting for Accounting and Financial Controllership students. This course provides a presentation and examination of topics introduced Principles of Financial Accounting. The emphasis is on the conceptual foundations of accounting principles and translating them into procedural treatments of financial information. Topics covered in this course will include coverage of the following: financial accounting standards, the conceptual framework, qualitative characteristics of accounting, the accounting cycle, and a detailed discussion of the preparation and use of financial statements. There will also be an in-depth analysis of specific accounts such as cash, accounts receivable, inventories, property, plant and equipment and intangibles.

Pre-requisite: ACCT1000 Principles of Financial Accounting

### **ACCT2003 BUSINESS LAW**

This course aims to familiarize students with the fundamental concepts of the legal environment of business, so they can take legal dimensions into account when making business decisions. Topics to be covered include: Introduction to the legal and judicial systems of Macau; Sources of law; Overview of public and private law branches; Law of Persons; Law of Obligations including Contract Law and Civil Liability, Commercial Contracts, Company Law and Dispute Resolution.

Pre-requisite: MGMT1000 Principles of Business Management

### **ACCT2004 INTERMEDIATE ACCOUNTING**

This course is a comprehensive financial accounting course that examines multiple issues in financial reporting from both preparer and user perspectives. The course emphasizes on the application of international financial reporting standards and makes reference to the US accounting standards where appropriate. After students have finished the course, they can have clearer perspective on the information available in financial reporting and students will appreciate the challenges, worth and limitations of accounting. It also helps them to evaluate critically and understand the financial accounting theory and practice. Finally, it prepares students for advanced study, professional examinations and the successful pursuit of the careers in accounting or business.

Pre-requisite: ACCT1000 Principles of Financial Accounting

**ACCT3000 INTERMEDIATE ACCOUNTING II**

This is the second course in a three course sequence on Financial Accounting for Accounting and Financial Controllership students. This course continues an examination of the liability and equity accounts. Topics will include current liabilities and contingencies, long-term liabilities and leases, stockholders' equity including coverage of the issuance and repurchase of shares, dividend policy, and the impact of dilutive securities on earnings per share. The effect of share conversions, warrants, stock options and compensation plans will also be discussed.

Pre-requisite: ACCT2001 Intermediate Accounting I

**ACCT3001 INTERNATIONAL FINANCIAL REPORTING STANDARDS AND THE GLOBAL ENVIRONMENT**

This course is to provide students the basic concepts of the development of IFRS that will receive broad consensus support, regulators have been active in developing further requirements concerning corporate governance. It also focuses on the international accounting scandals in the US or Europe and by shareholder activism fueled by the apparent lack of any relation between increases in directors' remuneration and company performance.

Pre-requisite: ACCT1000 Principles of Financial Accounting and ACCT2001 Intermediate Accounting I

**ACCT3002 MANAGEMENT ACCOUNTING II**

This is the second course in the Cost Managerial sequence for Accounting and Financial Controllership students. It addresses topics more closely associated with the use of accounting data for decision making within the company. It includes topics such as: decision making and relevant information, pricing decisions, cost allocations for service departments and joint products, transfer pricing and responsibility accounting.

Pre-requisite: ACCT2000 Management Accounting I

**ACCT3003 INTERMEDIATE ACCOUNTING III**

This is the third course in a three course sequence on Financial Accounting for Accounting and Financial Controllership students. This course examines issues in financial reporting for both the perspectives of both the preparer and the user. The course makes reference to the US accounting standards and the International financial accounting standards. Topics will include investments, accounting for derivative financial instruments, foreign currency issues, revenue recognition, accounting for deferred taxes, accounting changes and error analysis, statement of cash flows and basic financial statement analysis.

Pre-requisite: ACCT3000 Intermediate Accounting II

**ACCT3004 ADVANCED FINANCIAL ACCOUNTING**

This course provides students with a comprehensive understanding of business combinations and inter-corporate ownership. In particular, it prepares students to critically evaluate the principles underlying the accounting of complex transactions relating to global business combinations and group reporting. It covers the preparation of consolidated financial statements, beginning with the basic consolidation process and continuing through a variety of inter-company transactions. Cases are used to illustrate the complexities of mergers and acquisitions within a real world context.

Pre-requisite: ACCT2001 Intermediate Accounting I or ACCT2004 Intermediate Accounting

**ACCT3005 ACCOUNTING INFORMATION SYSTEMS**

This course introduces students to accounting and business related technologies as well as trends and issues of technology development that are crucial in contemporary business world. Contents include accounting information systems, enterprise resource planning systems, big data and business intelligence, blockchain technology, information system security and controls, e-commerce and m-commerce, and artificial intelligence. Concepts and methodologies for business process and data modeling along with documentation techniques are covered, which offers students the opportunity to analyze and synthesize business processes and data flows in an organization. Various system development tools (flowcharts, data flow diagrams, and

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structured charts) are adopted in the analysis and design of business transaction cycles (Revenue cycle, Expenditure cycle, Production cycle, Human Resource Management and Payroll cycle). General ledger and reporting systems are integrated into the course so that students can apply accounting knowledge and skills acquired from other accounting courses into the development and management of accounting information systems that fit into the real-world business environment. Accounting software and enterprise resource planning (ERP) applications are also demonstrated.

Pre-requisite: ACCT1000 Principles of Financial Accounting and ISOM1001 Contemporary Information Systems for Organizations or ACCT1000 Principles of Financial Accounting and any course from GE science and technology area

### **ACCT3006 INTERNSHIP FOR ACCOUNTING FUNCTION I**

This 1.5-credit course is designed with internship components to prepare students who are majoring in the Professional Accountancy and Accounting and Information Systems. It aims at providing students a broad exposure to the operations of Accounting and knowledge of work procedures. Students are supervised directly by professionals in organizations who communicate directly with the course coordinator. While each learning experience will differ depending on the type of organization, situation, and duration, the course coordinator will guide and assist students through their profession-oriented learning process. At the end of the internship, each student shall be able to embark on a career with hands-on industry experience.

Pre-requisite: ACCT2001 Intermediate Accounting I or ACCT2004 Intermediate Accounting

### **ACCT3007 INTERNSHIP FOR ACCOUNTING FUNCTION II**

This 1.5-credit course is designed with internship components to prepare students who are majoring in the Professional Accountancy and Accounting and Information Systems. It aims at providing students a broad exposure to the operations of Accounting and knowledge of work procedures. Students are supervised directly by professionals in organizations who communicate directly with the course coordinator. While each learning experience will differ depending on the type of organization, situation, and duration, the course coordinator will guide and assist students through their profession-oriented learning process. At the end of the internship, each student shall be able to embark on a career with hands-on industry experience.

Pre-requisite: ACCT2001 Intermediate Accounting I or ACCT2004 Intermediate Accounting

### **ACCT3008 PUBLIC SECTOR ACCOUNTING**

This course will cover fundamental concepts of accounting principles and practices in government and not-for-profit organizations. Concepts of budgeting, fund accounting, encumbrances and value of money in the public sector will be important topics in this class.

Pre-requisite: ACCT1000 Principles of Financial Accounting

### **ACCT3009 FINANCIAL STATEMENT ANALYSIS**

The course focuses on the most salient aspects of accounting, analysis, and valuation. Students are taught to analyse, critically assess and interpret financial statement data of real companies to make informed business decisions. The course makes financial statement analysis engaging, relevant to business world and contemporary to international accounting standards. To that end, it consistently incorporates real company data and international business cases throughout teaching to reinforce the specific knowledge and skills being developed in the course.

Pre-requisite: ACCT2004 Intermediate Accounting

### **ACCT4000 AUDITING I**

This course will discuss Generally Accepted Auditing Standards (GAAS) and International Standards on Auditing (ISA). The student will learn about the role of the auditing in a modern corporate setting. This will include the demand for auditing services, ethical dimensions of the auditing function and the responsibilities and legal liabilities of auditors.

The student will also learn the importance and process of many audit functions including: planning audits, collection of audit evidence, assessing risk and internal controls,



understanding audit sampling and analytical procedures, constructing the audit report.

Pre-requisite: ACCT3000 Intermediate Accounting II AND ACCT3005 Accounting Information Systems or ACCT2004 Intermediate Accounting AND ACCT3005 Accounting Information Systems

#### **ACCT4001 ACCOUNTING THEORY**

This course will address current controversies in Accounting, Auditing and Tax Accounting. It will focus on issues of current interest to the profession and/or accounting research. This course will generally be available to year four Accounting and Financial Controllorship students only. If the topic permits, the instructor may open the course to year three Accounting and Financial Controllorship students also.

Pre-requisite: ACCT3000 Intermediate Accounting II or ACCT2004 Intermediate Accounting

#### **ACCT4002 SPECIAL TOPICS IN ACCOUNTING**

This course will address current controversies in Accounting, Auditing and Tax accounting. It will focus on issues of current interest to the profession and/or accounting research. This course will generally be available to year four Accounting and Financial Control students only. If the topic permits, the instructor may open the course to year three Accounting and Financial Control students also.

Pre-requisite: ACCT2000 Management Accounting I

#### **ACCT4004 FINANCIAL ACCOUNTING IN HOSPITALITY AND GAMING**

Accounting, as the business language, can bring underlying economics to the attention of stakeholders for their decision making in the hospitality and gaming industries. This course aims to equip students with knowledge and skills to analyze and interpret accounting information in the hospitality and gaming industries for managers, stockholders, financial analysts, creditors and policy makers. Along the way, students will develop the technical skills necessary to analyze corporate financial statements and disclosures, and interpret how accounting standards and managerial incentives affect the financial reporting process and outcomes. Important issues for annual reports of companies in the hospitality and gaming industry are discussed in this course, including financial statements, corporate governance reporting, corporate social responsibility reporting, auditing, taxation, anti-money laundering and junket operation. The course draws on the findings of recent academic research to discuss a number of techniques that outsiders can use to detect potential bias or aggressiveness in financial reporting.

Pre-requisite: ACCT2000 Management Accounting I

#### **ACCT4005 MANAGERIAL ACCOUNTING IN HOSPITALITY AND GAMING**

The main purpose of the subject is to learn how to use accounting as a managerial tool to improve operational efficiency and profitability of gaming and hospitality firms through revenue enhancement and cost reduction.

Pre-requisite: ACCT2000 Management Accounting I or ACCT2002 Principles of Managerial Accounting

#### **ACCT4006 AUDITING II**

This is the second course in Auditing. The course covers knowledge and intellectual skills including: 1) the appropriate audit procedures for different audit cycles, 2) internal control structures and test of transactions, 3) tests of details of balances for each cycle, 4) audit of subsequent events and post balance sheet transactions, and 5) finalize audit reports for management review. International auditing standards and business cases are demonstrated throughout the course to enable students to acquire the specific knowledge and skills being developed in the course.

Pre-requisite: ACCT4000 Auditing I

#### **ACCT4007 CORPORATE GOVERNANCE**

This course introduces fundamental theory and practices of corporate governance. It aims to

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provide students with an understanding of the concepts, principles, rules, and applications of corporate governance in different jurisdictions. Specifically, topics covered include key theoretical models in corporate governance, different combinations of ownership and control, the role of board of directors, institutional investors, shareholder activism, debtholders and gatekeepers in the corporate governance mechanism. Moreover, corporate social responsibility as well as contemporary corporate governance issues in the international context and emerging markets will be discussed. Students are expected to apply knowledge to critically evaluate the effectiveness of corporate governance and accountability to various stakeholders in public companies.

Pre-requisite: ACCT1000 Principles of Financial Accounting

#### **ACCT4008 MANAGEMENT CONTROL SYSTEMS**

This course covers knowledge in advanced management control systems and contemporary research in management accounting. It focuses on management accounting practices and research throughout the course. The course takes a broad approach to current issues and contemporary research in management accounting with extensive coverage of new management accounting practices being adopted by innovative international companies around the world, including activities based management, kaizen, target costing and balanced scorecard. International cases and critical analysis of management control systems are covered in the course. Cases require the balanced application of skills and knowledge of contemporary research in management accounting.

Pre-requisite: ACCT3002 Management Accounting II

#### **ACCT4009 CHINA TAX**

This course provides comprehensive coverage of the tax system in China. It introduces the context in which China's laws operate and the many significant issues that are required for business and investment activities on the mainland. The course covers specifically on the taxation laws of mainland China including Individual Income Tax, Enterprise Income Tax, Value-Added Tax, Business Tax, the various indirect taxes, tax reforms, tax treaties and so on.

Pre-requisite: None

#### **ACCT4010 TAXATION IN MACAO AND HONG KONG**

Since the legal systems in Macao (continental statute law) and Hong Kong (common law) are different, their tax laws also stem from different legal traditions. Furthermore, from an accounting point of view, taxation requires thorough understanding of the tax articles and ordinances and the ability to synthesize the conceptual knowledge into tax accounting applications. Therefore, the aim of this course is to provide a strong foundation for the understanding of the legal and tax systems of the two places so as to equip students with the conceptual and practical as well as computational skills applied to real life business cases.

Pre-requisite: ACCT2001 Intermediate Accounting I or ACCT2004 Intermediate Accounting

#### **ACCT4011 INTERNATIONAL TAXATION**

Tax laws of different countries and regions are based on their diverse legal traditions and systems in vigor. Two mainstream legal systems, namely the continental system and the common law system will be stressed in this course. The former system is largely exemplified through the introduction of Macao taxation while the latter by the Hong Kong tax regime. Therefore, the students can appreciate how a same income or expense will be treated under various legal requirements and will be able to make critical comparisons and to eventually advise tax information users from different regimes using various angles. Again, taxation requires firstly thorough assimilation of the legal justifications before they are applied to tax computations. Therefore, both conceptual and computational understandings are stressed. All court cases illustrated in the course are from international examples which will therefore touch on issues such as tax planning and transfer pricing as well as international tax treaties.

Pre-requisite: ACCT4010 Taxation in Macao and Hong Kong

### **ACCT7012 FUNDAMENTALS OF ACCOUNTING**

This course examines issues in financial reporting from both preparer and user perspectives. The course aims to deliver concepts of accounting, International Financial Reporting Standards (IFRS), and the application of accounting standards to the preparation of the financial statements. Real case studies are introduced throughout the course. Contents of the course include: Conceptual framework; Transaction analysis and accrual accounting; Financial statements and analysis; Cash and cash flow statement; Accounting information for decision making; Corporate governance; Accounting fraud and misappropriation of assets; Contemporary issues in Accounting, etc.

Pre-requisite: None

### **ACCT7013 FINANCIAL REPORTING**

This course is a continuation of 'Fundamentals of Accounting' which is an intermediate level course providing substantial knowledge in financial accounting based on International Financial Reporting Standards (IFRS). Students are expected to acquire the balanced accounting techniques and theoretical knowledge through this course. Major topics include the Conceptual Framework, Property, Plant and Equipment, Intangible Assets, and Impairment of Assets, Leases, Financial Assets and Liabilities, Provisions, Contingent Liabilities and Contingent Assets, Revenue, Income Taxes, Accounting for Shareholders' Equity, and Financial Statement Disclosures.

Pre-requisite: ACCT7012 Fundamentals of Accounting

### **ACCT7014 BUSINESS LAW**

This course introduces the legislative system and commercial law in Macao. Topics include liability of commercial contracts, product liability and compensation, forms and liability of agents, legislation concerning limited liability companies, share limited companies and group corporations, commercial instruments, carriage of goods and insurance and commercial arbitration.

Pre-requisite: None

### **ACCT7015 MANAGEMENT ACCOUNTING**

This course is about the managerial use of accounting data to plan and control personnel and operations in the firm. The focus is on planning, decision-making and control by organizations, and on the accounting systems that managers have to assist them in their decisions about resource allocation and performance evaluation. Major topics included are product costing, costing approaches used in today's business environments, relevant costs for decision analysis, variance analysis, divisional performance evaluation and transfer pricing.

Pre-requisite: None

### **ACCT7017 FINANCIAL MANAGEMENT**

This course offers students a more advanced understanding of important concepts and theories in the field of corporate finance. It covers basic topics including capital budgeting, alternative valuation methods, capital structure decisions, corporate payout policy, securities offering decisions, as well as more advance topics (optional) such as options, futures, and corporate risk management. The objective of this course is to provide students with essential tools to study more advanced courses in finance.

Pre-requisite: None

### **ACCT7018 ACCOUNTING FOR DECISION MAKING**

This course examines issues in financial reporting from both preparer and user perspectives. The course aims to deliver concepts of accounting, International Financial Reporting Standards (IFRS), the application of accounting standards to the preparation of financial statements, and the analysis and interpretation of management accounts for decision makings. International real case studies are introduced throughout the course.

Pre-requisite: None

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### **ACCT7050    ADVANCED FINANCIAL REPORTING**

This is an advanced level financial accounting course. Topics covered will include business combinations and impairment of goodwill, the basic consolidation process with variety of intercompany transactions and associate reporting. Emphasis will be placed on the application of International Financial Reporting Standards.

Pre-requisite: ACCT7013 Financial Reporting or equivalent

### **ACCT7051    CORPORATE GOVERNANCE AND SOCIAL RESPONSIBILITY**

This course aims at introducing contemporary theories, models, issues and practices relating to business ethics and corporate governance and social responsibility and imparting an ethical mindset to the students in the conduct of business and the treatment of accounting information. Topics include the concept and theories of corporate governance; corporate governance principles, functions, structures and mechanisms; corporate governance models, standards, regulations and practices; the roles of different corporate stakeholders in corporate governance; current debates over corporate governance regulation and practice, causes and consequences of corporate governance failures; design and assessment of measures to improve corporate governance, corporate social responsibilities and socially responsible investing; and trends and emerging issues in corporate governance.

Pre-requisite: None

### **ACCT7052    PERFORMANCE MANAGEMENT AND CONTROL SYSTEMS**

The course is an extension to management accounting in the area of business which develops the financial and non-financial information necessary to effectively manage the firm or organization.

Management accounting is in transition moving from a procedural focus on financial accounting reports to a strategic focus on the use of accounting to facilitate the business success of the enterprise. The concepts of management accounting are used in both manufacturing and service firms, and are increasingly applied to government and not-for-profit organizations, to help them succeed in their service missions, to be responsible to the citizens and funding agencies.

A principal motivation for the change in management accounting is the changes in business processes and organizations in response to increased competition, both global and domestic. These changes include a renewed focus on the customer, aggressive cost reduction, outsourcing, downsizing and reengineering, total quality management, advanced manufacturing technologies, and increased use of information technologies, among others. The management accountant is no longer a reporter and analyzer of financial facts only, but a business partner -developing the financial and non-financial information the organization needs to be successful.

As such, the management accountant plays a strategic role in the business, developing and presenting the information that is critical for the firm's success.

Pre-requisite: ACCT7015 Management Accounting or equivalent

### **ACCT7053    FINANCIAL RISK MANAGEMENT**

This course provides students with the knowledge and intellectual skill in risk identification, measurement, control, and evaluation. It enables students to evaluate how a business can identify and measure its loss exposures, select appropriate tools for the management of risk exposures. It aims to prepare the students for necessary knowledge about independent risk analysis and decision-making in an effective risk management system. The topics covered include the nature of risks, rationale and framework for risk management, scientific risk measurement for financial risk, market risk management using derivatives, management of credit, liquidity, and operational risks, as well as stress tests and scenario analyses in crisis management. Students are expected to apply knowledge to the discussion of real-world issues in corporate risk management.

Pre-requisite: ACCT7017 Financial Management or equivalent

### **ACCT7055 AUDITING AND ASSURANCE**

The course aims to deliver knowledge of international auditing standards, contemporary practices in auditing, rules, regulations and applications of auditing standards to audit work. The course emphasis on auditor's decision making process in a financial statement audit, as well as an integrated audit of both financial statements and internal control over financial reporting required for public companies. International case studies are introduced throughout the course.

Pre-requisite: None

### **ACCT7056 TAXATION**

This course aims at introducing the various direct and indirect taxes currently in force in the Macao and Hong Kong Special Administrative Regions as representative examples of taxation from both continental and common law systems. The taxes will include those levied on goods, properties, personal income and corporate earnings. Some discussions on tax planning issues will also be covered.

Pre-requisite: None

### **ACCT7060 FINANCIAL STATEMENT ANALYSIS FOR DECISION MAKING**

This course aims to demonstrate how financial statements can be reformulated, analyzed and interpreted for decision making. It first identifies information sources that analysts frequently employ in financial statement analysis and examines the steps of the financial statement analysis framework. It then discusses the objective of financial reporting and how financial reporting standards affect security analysis and valuation. The course will cover important tools and techniques used in financial analysis including activity, liquidity, solvency, profitability and valuation ratios, describe the relationships among those ratios and evaluate real life companies using ratio analysis. It also demonstrates the application of DuPont analysis of return on equity, and other ratios especially used in equity analysis and credit analysis. Finally, it provides a framework for considering potential analyst adjustments that are necessary when comparing companies that use different accounting methods or estimates.

Pre-requisite: ACCT7013 Financial Reporting

### **ACCT7300 FINANCIAL STATEMENT ANALYSIS**

Financial analysis is an integral part of business analysis and strategy formulation of a firm. This course covers the basics of both qualitative and quantitative analysis of the firm's reports and looks further into risk analysis, forecasting and valuation techniques. The aim is to provide a working knowledge of the role of financial reports in the overall firm valuation, with emphasis on strategic analysis. This course adopts a practical approach where possible using data from real life cases. Students will gain an appreciation of the usefulness and importance of financial statement information and the tools used to evaluate such information.

Pre-requisite: None

### **ACCT7301 CORPORATE FINANCIAL STRATEGY**

This course provides practical insights into corporate financial decisions from top management perspectives. Topics covered include corporate objectives and strategic analysis, investment decision making, financing choice, initial public offerings, capital structure, dividend policy, mergers and acquisitions strategies.

Pre-requisite: None

### **ACCT7350 CORPORATE GOVERNANCE AND SOCIAL RESPONSIBILITY**

The course focuses on large business firms with publicly traded equity. It focuses on the iteration between corporate governance at the levels of firm and national system in US, Europe and Asia. Topics will include: role of corporate governance in strategic decision making, director legal duties and customary practices; board leadership structures; best practice codes and investor pressure; movements championing shareholder rights, increased representation of women on boards; governance in the family-controlled (but publicly traded) firm; corporate governance in the "stakeholder model," and in "state capitalism"; strategic corporate social

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responsibility and the proper scope of business firms' responsibilities to society.

Pre-requisite: None

### **ACCT7351 INTERNATIONAL FINANCIAL MANAGEMENT STRATEGY**

Economic globalization over last decades has greatly increased foreign investments and international trade in goods and assets. For businesses and investors, access to international markets comes with opportunities in addition to risk, and the course examines the increased benefits of international diversification and examines the risks involved in operating and investing in such locations. Topics include the forward foreign exchange market, interest rate parity, portfolio investment in international capital markets, foreign direct investment and financing decisions of multi-national corporations, political and country risks.

Pre-requisite: None

### **ACCT7991 PROJECT REPORT**

Students are required to identify a real accounting issue faced by companies and provide a data driven solution in the Project Report. The issue can come from any business sector and industry, and can be local or international in scope, but the nature of the issue must be related to accounting.

Pre-requisite: None

### **ACCT8013 EMPIRICAL ACCOUNTING SEMINAR I**

This entry-level doctoral-level course covers research on the role of financial information in capital markets. The course starts with the ground-breaking empirical paper of Ball and Brown (JAR, 1968) and discusses classical accounting research papers using empirical methods. It builds on economic theory and includes topics such as the informational role of financial reports, earnings attributes and quality, role of key participants in the reporting environment, including management, investors, auditors, financial analysts, and regulators.

Pre-requisite: None

### **ACCT8014 EMPIRICAL ACCOUNTING SEMINAR II**

This advanced doctoral-level course covers research on the role of financial and non-financial information in capital markets. The course discusses the latest accounting research papers using empirical methods. It will go through empirical design issues in latest accounting research studies and emphasize on causal inference. The readings focus on research designs, and key theories and analytical approaches from the accounting, finance, economics, and behavioral psychology/sociology.

Pre-requisite: ACCT8013 Empirical Accounting Seminar I

### **ACCT8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

### **BAGC7011 RESEARCH METHODS**

The course provides postgraduate business students with the fundamental analytical skills that they need for their project report, as well as a good understanding of the overall research process. The course guides students through every step of a research project, from getting started to analyzing data and writing a mock project report. It provides enhanced coverage of quantitative methods available for a variety of business topics, and contains demonstrations of the use of statistical software in a wide range of business research.

Pre-requisite: ISOM7012 Statistical Analysis and Applications (for students of MBA Programme). None [for students of Master of Science in Data Science (Marketing Analytics)]

### **BAGC7300 INNOVATION AND ENTREPRENEURSHIP**

This course is about management of innovation with the focus on entrepreneurial firms that have relied on innovation. In addition to understanding innovation issues from the entrepreneur and manager's perspectives, students will also learn to identify and explore entrepreneurial opportunities and develop knowledge and skills necessary to successfully operate an entrepreneurial venture. Students will learn how growing and innovative companies should identify the right vision and strategies, raise capital and formulate exit strategies from the entrepreneurial perspective.

Pre-requisite: None

### **BAGC7301 STUDY TRIP GROUP REPORT**

The study trip provides students an opportunity to learn knowledge and practice outside classroom. It includes company and university visits. During the trip, students will have in-depth communications with industry leaders and university scholars. A project will be completed by students shortly after the trip.

Pre-requisite: None

### **BAGC7350 RISK AND CRISIS MANAGEMENT STRATEGY**

Risk is an essential part of any business. Knowing what risk to take and how much to take is critical in creating value for shareholders. This course focuses on the identification, quantification and control of various aspects of risks and crisis facing companies, e.g., business risk, financial risk (e.g., interest rates and exchange rates, the cost of raw materials, etc.), operational risk, crises and disasters. It teaches participants how to deal with crisis events, e.g., natural disasters, social and political instability, system failures, technological breakdown, etc., that could cause major disruptions to companies.

Pre-requisite: None

### **BAGC7351 BUSINESS RESEARCH METHODS**

This course introduces students to fundamental research and data analysis techniques. Students will be able to identify a research topic, design a study, collect data, analyze data, and draw conclusions based on the findings.

Pre-requisite: None

### **BAGC7498 PROJECT REPORT**

Student will choose a research topic on his or her own or with the help of his or her supervisor and develop a research proposal before writing up the report. The nature of the research is mostly practical or applied, focusing on analyzing practical management issues and identifying implications for corporate and/or government policies. Students have six months to complete the research.

Pre-requisite: None

### **BAGC7991 PROJECT REPORT**

This course intends to cultivate analytical and problem-solving skills among students through the design and implementation of a business project. Students are required to identify a real business issue faced by companies and provide a data driven solution in the project report. The issue, which can be local or international in scope, may come from any business area and industry sector.

Pre-requisite: None

### **BAGC8001 RESEARCH ETHICS**

The course provides students with an understanding of the following issues:

- The need for research ethics and the responsibility of the researcher (the student)
- The most common types of academic dishonesty (such as fabrication and plagiarism)
- How to avoid committing acts of academic dishonesty (such as through using citations and references)
- How the University deals with students who have been proven to have committed acts of

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academic dishonesty (The University's 'Rules on Handling Student Academic Dishonesty' will be outlined)

Pre-requisite: None

### **BAGC8300 RESEARCH METHOD FOR BUSINESS AND MANAGEMENT RESEARCH**

Research competencies and skills are essential for the effective conduct and understanding of research and ultimately for evidence-based decision-making, whether in business, government or civil society. The development of research competencies is particularly relevant for junior academics whose career is increasingly dependent on their research output. When embarking on a DBA program, students also need to have a solid understanding of what constitutes good research, how to design and execute empirical studies and how to present and discuss research results in a convincing and effective manner.

Pre-requisite: None

### **BAGC8301 RESEARCH WRITING AND ETHICS**

This course is the warm-up course for students to understand more about research writing and ethics before they choose their research topic and supervisor. Professors (also potential supervisors), and outstanding visiting scholars who know qualitative method (interview, case method), experimental method (ANOVA, MONOVA), and quantitative method (modelling, regression, SEM, multi-level modulation and algorithm, etc.) from different areas will teach in different sessions. Some guest speakers from industry will also share their viewpoints and insights about business operation and management. This is also a very critical and fundamental part of DBA learning and upcoming thesis writing.

Pre-requisite: None

### **BAGC8320 RESIDENTIAL WORKSHOP I**

This is an orientation workshop to prepare students for studying DBA in Macau. It provides the students an overview of the research knowledge and analytical skills as required for their DBA studies. Social activities as well as lectures from UM professors and business executives in the Greater Bay Area would be arranged.

Pre-requisite: None

### **BAGC8322 RESIDENTIAL WORKSHOP II**

Residential Workshop II would be held outside Macau. It consists of lectures from professors in leading universities, site visits to renowned companies, social events, and intensive discussion among students on one selected topic for the workshop.

Pre-requisite: None

### **BAGC8397 DOCTORAL THESIS**

The course is the most significant learning experience of the programme. Students have the opportunity to apply theories learned in the taught courses and to conduct an independent research project examining an important issue. The systematic investigation process will confirm for the participants their ability to conduct independent research, demonstrate their expertise in a chosen area of interest and make an intellectual contribution to the practice of management.

Pre-requisite: None

### **BECO1000 PRINCIPLES OF MICROECONOMICS**

The course enables students to understand the behaviour of different economic agents in the economy and their interactions in the market. It introduces to students the patterns of different market structures and their associated impacts, enabling students to understand the role of the government and the degree of efficiency in different market structures. The course also enables students to apply basic economic theories and models to explain real world economic phenomena. The course covers the concepts of the demand, supply, their elasticity and market equilibrium. Consumer choices, production process, the costs of production and different market structures and their patterns will also be discussed in the classes. Pre-requisite: None



### **BECO1001 PRINCIPLES OF MACROECONOMICS**

The course enables students to understand how the economy operates as a whole. It introduces to students the basic economic indicators, the underlining economic forces and the roles of the public and private sectors, enabling students to apply basic economic theories and models to explain contemporary economic issues.

The course introduces to students the basic economic indicators such as gross domestic products, inflation, unemployment interest rate and their measurement. Concepts such as money supply and demand, the stock market, aggregate demand, fiscal and monetary policies and macroeconomic theories, including the Monetarism and New Classical theory will be discussed in the course.

Pre-requisite: None

### **BECO2000 INTERMEDIATE ECONOMICS**

This course covers topics on both the Macro- and Micro-economics sides at the intermediate level. On the macroeconomics side, the Keynesian IS-LM model in the close and open economy, various exchange rate regimes and their implications to the economy will be discussed. In addition, the AD-AS model will be derived and employed to perform policy analyses. On the microeconomics side, quantitative models in relation to consumer's choice, budget constraints and utility maximization will be focused. The concepts of profit maximization, cost minimization, firm's and industry's supply as well as the market structures of perfect competition, oligopoly and monopoly will also be addressed in the course. After this course, student would have a stronger quantitative background in economics. Besides, students are expected to be able to apply more sophisticated macro- and micro- economic models to conduct empirical economic analyses.

Pre-requisites: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

### **BECO2001 ECONOMETRICS I**

This is an introductory course to econometrics. It introduces to students the basic concepts of econometrics with respect to regression modelling, estimation and inference. It enables students to understand basic regression analysis and to draw policy implications from the econometric results.

Pre-requisite: ISOM2002 Statistics and Data Analysis

### **BECO3001 PUBLIC ECONOMICS AND FINANCE**

This course introduces to students the tools for analyzing the role of state (government) in the economy. It discusses the justification for government intervention in a market economy, analyzes the key area of government policy in public finance.

The topics covered in this course are Efficiency and market, Rationales for Government Intervention, Market Failure, Cost-Benefit Analysis, Equity and Rationale for Income Redistribution, Income Support for the Poor, Social Insurance and Tax Incidences.

Pre-requisite: None

### **BECO3004 ECONOMICS OF TOURISM**

This course introduces to students the environmental, social, cultural and economic conditions, as well as public policy issues which are necessary to the success and sustainable growth in the tourism industry. The merits and defects of a tourism-based economy, and the current structure and prospects of tourism in Greater China and other East Asian countries will also be discussed. It enables students to understand both the demand- and supply-side factors in the tourism industry.

The topics covered by this course are the dynamics and effects of tourism evolution, the concepts, definitions and global trend in tourism, the market for tourism, the composition of the domestic and international tourism industry, the structure and economic role of tourism in the East Asia, the development of tourism in China, the growing interaction and evolving interrelationship between gaming and tourism and the tourism in the Great Pearl River Delta and Macao.

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Pre-requisite: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

### **BECO3006 MONEY AND BANKING**

This course introduces to students the nature and functions of money and the principal institutions involved in the money or financial side of our macroeconomy. After this course, students would be able to gain skill and practice in the analysis of economic situations, events, and policies, particularly those directly involve in money, banking and financial market.

Pre-requisite: BECO1001 Principles of Macroeconomics

### **BECO3008 INTERMEDIATE MICROECONOMICS**

The course introduces to students the concepts and techniques of microeconomic analysis, with an objective of delivering students a rigorous knowledge on modern microeconomic theories, and to enable them to apply modern microeconomic theories to analyze individual's behaviour.

The course covers topics such as budget constraint, preferences, utility, choice, demand and consumer surplus, market demand and equilibrium, technology and profit maximization, cost minimization and cost curves, firm supply and industry supply, monopoly and oligopoly.

Pre-requisite: BECO1000 Principles of Microeconomics

### **BECO3009 INTERMEDIATE MACROECONOMICS**

This course enables students to understand how the economy operates in a complex world, and how macroeconomic policies operate to affect the domestic and foreign economies. After this course, students could be able to utilize these models to analyze various economic issues in a systematic and scientific way.

Fundamental and essential macroeconomic models, such as the goods and financial markets, the IS-LM and AD-AS model, their theoretical background and applications in the closed and open economy, the labor market, exchange rate regimes and the unemployment issue will be discussed in this course.

Pre-requisite: BECO1001 Principles of Macroeconomics

### **BECO3010 GLOBAL ECONOMIC ISSUES AND BUSINESS IMPLICATIONS**

This course is a combination of economics and real world. It applies various basic economic theories to analyze various contemporary global economic issues which enables students to better understand the relation between economic knowledge and the goal of mankind: achieving prosperity. The lecture topics include Economic Growth, Poverty, Financial Crisis, Resources, Environment, Climate Change, Trade and the emerging of China.

Pre-requisite: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

### **BECO3011 FINANCIAL ECONOMETRICS**

This course introduces to students advanced econometric methodologies beyond the fundamental least squares regression analysis for financial data. It focuses on the appropriate econometric modelling, estimation and inference in analyzing data that are typically employed in examining financial issues.

Pre-requisites: BECO2001 Econometrics I AND FINC2000 Financial Management or BECO2001 Econometrics I AND FINC2003 Corporate Finance

### **BECO4000 ANALYSIS OF ECONOMIC INDICATORS**

This course introduces to students the major economic indicators and their use in describing the state of an economy. It studies how economic indicators are measured, how they behave under different economic environments, what they tell and how different decision makers, including the government, business, investors, and consumers, make decisions based on economic indicators.

Topics include: introduction; economic growth and business cycle; economic indicators in the areas of production, employment, consumption, investment, price and wage, money and

interest rate, financial market, government, balance of payment, exchange rate; decision making and economic indicators; economic derivatives.

Pre-requisite: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

### **BECO4003 INTRODUCTION TO ECONOMETRICS**

The course aims to define and analyze variables and data set for particular statistical investigation, to familiarize students with the statistical estimation and inference in linear regression model and its application to problems in economics and the social sciences. In the course, students will learn how to carry out statistical estimation, and the methods in interpreting econometric results carried out and reported by others.

The course will cover topics such as the scope and limitations of econometrics, introduction to EViews and SAS, the nature of regression analysis, the foundation of different regression models, the normality assumption of the CLRM, interval estimation and hypothesis testing, multiple regression analysis and the problems associated in different estimation methods.

Pre-requisite: ISOM2002 Statistics and Data Analysis or FINC2002 Statistics for Finance or ISOM2004 Data Analysis and Modeling

### **BECO4004 APPLIED ECONOMETRICS**

This is an advanced econometric course. It introduces econometric methods that build on the classical linear regression model at the introductory level. It focuses on econometric estimation, hypothesis testing and result interpretation in analyzing different types of data sets in the real world.

Pre-requisite: BECO4003 Introduction to Econometrics

### **BECO4005 APPLIED ECONOMICS FOR LEISURE INDUSTRIES**

Broadly speaking, leisure include the provision of such services as recreation, tourism and gaming, etc. The course examines the similarities and differences between the leisure industries and the traditional industries. Factors determining demand, supply and market structure of the leisure industries would be investigated. In addition, global and regional issues associated with future growth and development of these industries will also be explored. Various practical cases will be discussed to enhance students' understanding of the economic foundation of the leisure industries, as well as to elevate their decision making skills for these service sectors.

Pre-requisite: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

### **BECO4006 THE ECONOMICS OF DEVELOPMENT**

This course is to strengthen our ability to think analytically about the problems faced by developing economies. Students are encouraged to consider how barriers to development emerge and what policy can be designed to remove them.

This course is a research-oriented one, focusing on development problems faced by Macao, Hong Kong, Taiwan, and the rest of China. Students are required to undertake research projects on many real-world issues. They will see many new articles uploaded to the course-web, which go well beyond textbook discussions.

Pre-requisite: BECO3008 Intermediate Microeconomics AND BECO3009 Intermediate Macroeconomics

### **BECO4007 HISTORY OF ECONOMIC THOUGHT**

This course introduces to students the philosophical principles of the history of economic thought, and discusses economists' changing ideologies in revealing the economic societies across the different eras.

Topics to be covered include the ancient and medieval thoughts about a society's material well-beings; the evolving thoughts from pre-classical and classical economics to marginalism and neoclassical economics; the standpoints of socialism, the significance of institutional economics and new classicism.

Pre-requisite: None

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**BECO4008 FINANCIAL ECONOMICS**

This course enables students to develop analytical and quantitative skills in the Economics of Finance whose analysis is broader and deeper than that of Corporate Finance. After this course, students are expected to understand concepts such as Expected Utility, State Preference, Stochastic Dominance in Financial Economics.

Topics to be covered include a review of probability and statistics, expected utility theory, the capital asset pricing model (CAPM), consumption-based asset pricing theory, arbitrage pricing theory (APT), state preference theory, option pricing theory, market efficiency, the term structure of interest rates, forward contracts and futures contracts.

Pre-requisite: None

**BECO4011 INVESTMENT AND PROJECT ANALYSIS**

This course studies basic issues in the evaluation of business and public projects and decisions. Topics include: evaluation of business projects and decisions-capital budgeting, cash flow, risk, strategic options, and valuation by ratio; cost and benefit analysis of public projects and decisions-investment/decision criteria, identification and measurement of costs and benefits, discount rate, risk, cost effectiveness analysis, and income distribution.

Pre-requisite: BECO3008 Intermediate Microeconomics AND FINC2000 Financial Management

**BECO4014 INTERNATIONAL BANKING**

The course provides an overview of the theory and practice of banking. Key topics include the meaning of banking, different types of banks, diversification of banking activities, bank structure and regulation in developed and emerging economies, and financial crises. This course is to develop an understanding of the basic principles of international banking; an ability to successfully apply analytical decision making skills and solve problems; and an appreciation for the relevance of banking theory and its linkage with practice.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

**BECO4015 MANAGERIAL ECONOMICS FOR SMALL AND MEDIUM-SIZED RETAILING ENTERPRISES**

The course provides comprehensive discussions and examinations of the economic and business aspects of retail SMEs. It discusses the factors leading to the success and failure of SMEs, introduces issues such as market behavior, business finance, and internal management, associated with SMEs in the global economy, and examines the SMEs in Macao, Hong Kong and the Pearl River Delta.

Pre-requisite: BECO3008 Intermediate Microeconomics

**BECO4018 ECONOMIC ANALYSIS OF INVESTMENT PROJECTS**

This course aims to introduce to students the basic concerns and techniques used in evaluating business and public projects. Concepts to be covered are capital budgeting, cash flow, risk, strategic options, valuation by ratios, costs and benefit analysis of public projects and decision criterions. The methods in costs and benefits identification and measurement, cost effectiveness analysis for business and public projects and the selection of discount rate are going to be addressed as well. Students are expected to be able to apply the analytical skills learned in this course to evaluate real world business and public projects.

Pre-requisite: BECO1000 Principles of Microeconomics AND BECO1001 Principles of Macroeconomics

**BECO7010 STATISTICS AND FINANCIAL ECONOMETRICS**

This course introduces the basic tools with the aid of data for decision making in finance. It covers introductory probability, decision analysis, basic statistics, regression, simulation, linear and nonlinear optimization, and discrete optimization. Computer Programming exercises, cases, and examples, deliver in SAS® (by the SAS Institute Inc.) are drawn from asset pricing, market microstructure, derivatives, and other functions.

Pre-requisite: None

### **BECO7011 ECONOMICS FOR BUSINESS**

This course attempts to introduce postgraduate students to the core economic concepts and fundamental principles, with an emphasis on deriving practical implications for real-life managerial decisions. It covers the microeconomics theories of consumer and producer behaviours, market structures and corporate strategies, as well as the macroeconomic analyses on key indicators, government policies, and global issues. The objective is to equip students with a firm grip on economic reasoning, and an enhanced understanding on important contemporary economic topics.

Pre-requisite: None

### **BECO7350 REGIONAL ECONOMIES AND DEVELOPMENT STRATEGY**

This course aims to provide students with a rigorous foundation for regional economic development in theory and practice, with special focuses placed on both the Greater Bay Area and the Belt & Road initiatives. In the course various theories of international trade and economic integrations will be discussed and the resultant redistribution of economic welfare will be analyzed. The course will also review the impacts of regional integration on trade and development, address possible difficulties in carrying out these economic activities, and recommend policy support needed from public institutions for overcoming these difficulties.

Pre-requisite: None

### **BECO8010 MICROECONOMIC THEORY**

This course aims to introduce the theoretical underpinnings of microeconomics, offering a rigorous examination of the concepts and theories essential for understanding economic behavior at the individual and firm levels. Students will engage with topics including classical theories of consumer and producer behavior, choice under uncertainty, game theory, and market failure, among others. The course is designed to equip students with a solid foundation for their future research in economics-related fields.

Pre-requisite: None

### **BECO8011 ECONOMETRIC ANALYSIS**

This course aims to provide students with an in-depth understanding of econometric theories and data analysis techniques. The course will cover the theoretical foundations, practical implementation, and critical interpretation of a wide range of econometric methods. Students will learn to handle complex economic data and apply appropriate econometric models to conduct rigorous empirical analysis in their future research.

Pre-requisite: None

### **BECO8012 ADVANCED TIME SERIES ANALYSIS**

This is an advanced course on econometric theories and data analysis techniques, with a focus on time series analysis. It is designed to equip students with the theoretical knowledge and practical skills necessary to model and forecast temporal data. The course covers a wide range of topics from the fundamentals of time series models to the latest developments in the field.

Pre-requisite: None

### **BECO8013 SELECTED TOPICS IN BUSINESS ECONOMICS**

This seminar course is designed to introduce students to frontier research in various sub-disciplines of economics. The course delves into theoretical models, empirical techniques, and contemporary issues that are pivotal in applied economic analysis. The focal topics of the course may vary from year to year.

Pre-requisite: None

### **BECO8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

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**FINC2000 FINANCIAL MANAGEMENT**

This course, designed for non-finance students, covers basic principles of financial management in business. It provides students with a scientific framework for evaluating assets and investment opportunities. The course is divided into three parts. The first part discusses about the institutional settings and the relationship among different players in the financial markets. The second part focuses on capital budgeting. Here, different types of investment evaluation techniques will be discussed and compared. The last part discusses the determinants of the cost of capital – a key variable of capital budgeting.

Pre-requisite: ACCT1000 Principles of Financial Accounting

**FINC2001 ADVANCED FINANCIAL MANAGEMENT**

This course provides students with a working ability to make financing decisions. It begins with the discussion on dividend and debt policy and how they affect a firm's value. Then, financial statement analysis and financial planning will be presented. Given the importance of the latter, both long-term and short-term planning will be discussed in greater details. While short-term planning concerns with a firm's ability to pay its bills, working capital management focuses on the credit policy, inventory and cash management of a company. Finally, special topics including mergers and acquisitions, international financial management and options will be discussed.

Pre-requisite: FINC2000 Financial Management

**FINC2003 CORPORATE FINANCE**

This course, designed for finance students, introduces basic principles of financial management in business. It provides students with a scientific framework for valuing assets, evaluating investment opportunities, and choosing proper financing methods. The course is divided into three parts. The first part focuses on capital budgeting. Here, different types of investment evaluation techniques will be discussed and compared. The second part discusses the determinants of the cost of capital – a key variable of capital budgeting. The last part overviews corporate financing decision including capital structure decision and dividend policy.

Pre-requisite: ACCT1000 Principles of Financial Accounting

**FINC3000 DERIVATIVE SECURITIES**

This course is designed for senior undergraduate students to understand and price the basic derivative instruments, with major emphasis on options and futures. The course will start by introducing basic operations of these markets. Students will then apply the knowledge of mathematics of finance to the pricing of derivatives such as options, futures, and swaps. Discussions will then be extended to concepts of risk management such as Value at Risk and the Greeks of derivatives. General topics covered are pricing models, investment strategies and risk management involving the derivatives.

Pre-requisite: FINC2000 Financial Management or FINC2001 Advanced Financial Management or FINC3002 Theory of Finance or FINC3004 Portfolio Management

**FINC3001 FINANCIAL STATEMENT ANALYSIS AND VALUATION**

This course details financial statement analysis and valuation framework that integrates corporate strategies, financial reporting and analysis, and valuation. Fundamental analysis techniques are also examined with particular emphasis on the application of these techniques in equity valuation. This course is designed primarily for students who expect to be frequent users of financial statements or be involved in equity valuation as part of their profession.

Pre-requisite: FINC3004 Portfolio Management or FINC3002 Theory of Finance

**FINC3002 THEORY OF FINANCE**

The course aims to provide students with solid theoretical frameworks in asset pricing, corporate finance and other areas in finance. The course will equip students with both conceptual and analytical skills necessary to advance to more specialized courses. For asset pricing, concepts of risk and return are analyzed in the context of formal pricing models such as the Capital Asset Pricing Model and the Arbitrage Pricing Theory. Aspects of efficient market

theory and anomalies are considered. For corporate finance, business decisions such as capital budgeting and financing will be discussed.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

### **FINC3003 FINANCIAL MARKETS AND INSTITUTIONS**

This course covers the structure, functions, operations and regulations of financial markets and institutions. Topics include money market; bond market; stock market; foreign exchange market; commercial banks; mutual funds; pension funds; investment banks; insurance companies and venture capital firms. Upon completion of the course, student will have developed a comprehensive understanding of the fundamentals of various financial markets and financial institutions.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

### **FINC3004 PORTFOLIO MANAGEMENT**

This course focuses on the design and management of investment portfolios that meet the targeted investor's objectives. Both passive and active strategies are examined together with an in-depth review of pricing efficiency in securities markets and the implications for portfolio managers. Additional topics include strategies for managing security analysis and stock valuation, international diversification, and portfolio performance evaluation. The aim of this course is to help students:

- To develop an understanding of the basic principal of capital market theories.
- To develop an understanding of the nature and function of derivative instruments.
- To develop an ability to understand the linkage between the capital market theories and investment strategies.
- To develop an ability to apply the capital market theories and investment strategies in planning and administrating investment portfolios.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

### **FINC4001 CASE STUDIES IN CORPORATE FINANCE**

This is a case-method course in Corporate Finance. Students will learn to make investment and financing decisions in the financial manager perspective and focus on maximizing shareholders' value. This course provides an in-depth study of financial decision making and the process of value creation.

Pre-requisite: FINC2001 Advanced Financial Management or FINC2003 Corporate Finance

### **FINC4002 FINANCIAL MANAGEMENT SIMULATION**

This is a capstone course in financial management. It is intended to provide an opportunity for students to demonstrate their understanding of the principles of financial management as well as accounting, economics, marketing and production management. The primary focus of the course is on a sophisticated online simulation programme FinGame Online: The Financial Management Decision Game. This interactive tool would enhance students' experiences in applying financial theories.

The course objectives are:

- To develop techniques to link financial theories with practices.
- To apply principles of financial management through active management of simulated companies.
- To understand and appreciate the interrelationships among various types of financial decisions as well as between finance, production and marketing decisions
- To experience the excitement and challenges of managing a simulated company.

Pre-requisite: None

### **FINC4003 RISK AND INSURANCE**

This course provides an overview of the principles of risk management and insurance. The focus is on the management of risks by businesses and organizations. However, personal risks are also discussed. Topics on insurance covers the operation of insurance markets, insurance pricing, insurance regulations, insurance products, legal principles of insurance. An introduction

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of insurance industry in Macao and Hong Kong is covered.

In order to minimize the overlap with other finance courses, this course will not cover derivative instruments and there will be minimal coverage of exchange rate risk and interest rate risk.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

#### **FINC4004      MERGERS AND ACQUISITIONS**

This course examines various aspects of mergers and acquisitions (M&A) and corporate restructurings. It surveys the drivers of success and failure in the transactions. Issues regarding motive and strategy will be discussed, with economic implications the main focus of discussions. Students will also apply necessary skills and tools to evaluate and form an opinion about a proposed transaction, from both the acquirer's and the target's points of view. The course will be demanding and assume ability to understand financial statements, as well as familiarity with valuation analysis.

Pre-requisite: FINC2001 Advanced Financial Management or FINC2003 Corporate Finance

#### **FINC4005      FIXED INCOME SECURITIES**

This course provides an overview of the techniques available for valuing riskless and risky fixed income securities and their derivatives. Topics include fixed income mathematics, price sensitivity measures, securitization, and interest rate models. This course involves the use of a financial calculator and the development of Excel spreadsheets for solving complex problems.

Pre-requisite: FINC2000 Financial Management or FINC3002 Theory of Finance or FINC3004 Portfolio Management

#### **FINC4006      REAL ESTATE INVESTMENT AND FINANCING**

This course aims at enhancing knowledge on real estate investment and financing. Topics on real estate investments include investment and risk analysis, income property valuation and alternative real estate investment vehicles, such as real estate investment trust (REIT) and mortgage-backed securities. Topics on real estate finance include an introduction of mortgage markets, residential mortgage analysis (including Mortgage Pricing, Underwriting, Prepayments and Refinancing) and different types of home mortgage tools. An overview of the Macao Real Estate Markets, with particular emphasis on its development, transaction costs and transaction procedure, will be presented.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

#### **FINC4007      BEHAVIORAL FINANCE**

Behavioral finance is motivated by various financial anomalies that cannot be explained by traditional economic and finance theories. The course introduces extensive experimental evidence on psychological bias in peoples' belief and preferences. It also employs the theory of limits to arbitrage to analyze why irrationality lives. It further discusses the implication of behavioral biases on the financial market, including the aggregate stock market, cross-section of stock returns, individual investors, and corporate finance.

Pre-requisite: FINC2000 Financial Management or FINC3002 Theory of Finance or FINC3004 Portfolio Management

#### **FINC4008      INTERNATIONAL FINANCE AND GLOBAL ISSUES**

The objective of the course is to provide a conceptual framework within which the key financial decisions of multinational companies can be analyzed. Topics include exchange rates and currency markets, international money markets, international capital markets, foreign exchange exposure measurement and management, country risk, and other global issues.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

#### **FINC4009      FINANCIAL MODELING**

This hands-on courses focus on how to use Microsoft Excel to implement the various financial models taught in the finance programme. Topics include financial statement analysis, leasing, efficient frontier estimation, beta estimation, bond pricing and duration, option pricing, Monte



Carlo simulation, Risk models such as Value at Risk (VaR). Students will also learn how to use Macro and VBA in the course.

Pre-requisite: FINC3000 Derivative Securities AND FINC3004 Portfolio Management or FINC3000 Derivative Securities AND FINC3002 Theory of Finance

#### **FINC4010 BANK MANAGEMENT**

This course focuses on the advanced techniques of commercial bank management. Topics include bank performance analysis, asset/liability management techniques, investments and liquidity management, deposits and liability management, business lending, consumer lending, loan pricing, bank regulation and capital adequacy requirements.

Pre-requisite: FINC2000 Financial Management or FINC2003 Corporate Finance

#### **FINC4011 GRADUATION PROJECT ON APPLIED FINANCE**

This is a capstone course for the 4th year BSc in Finance students. Students will work in groups on a topic of their choice, under the supervision of academic staff members in the department. The nature of the project can be theoretical, empirical or case studies on applied financial problems. The goal is to provide students with opportunities to develop independent thinking and problem solving skills to academic or practical financial problems.

Pre-requisite: BECO2001 Econometrics I AND FINC3004 Portfolio Management

#### **FINC4012 FINANCIAL RISK MANAGEMENT**

This course will focus on the identification, quantification and management of market risk, financial risks, credit risk and operational risk of financial institutions and other corporations. Besides covering Value at Risk (VaR) models, the course also deals with issues such as financial regulation and capital adequacy including Basel II. Topics include volatility models, value at risk for stocks, currencies, bonds and derivatives such as futures, forwards, swaps and options; expected and unexpected loss due to credit risks, and operational risk measures.

Pre-requisite: FINC3000 Derivative Securities AND FINC3004 Portfolio Management or FINC3000 Derivative Securities AND FINC3002 Theory of Finance

#### **FINC4013 ADVANCED FINANCIAL MATHEMATICS**

This course aims to introduce important ideas in theory of probability and differential equations, and their applications to mathematical finance. Topics include: Finite Probability Spaces, Continuous probability theory, the Laplace transform, the Fourier transform, the diffusion equation, measure and integration, Brownian motion, Ito's Lemma, derivation of the Black-Scholes equation.

Pre-requisite: ISOM3033 Advanced Calculus

#### **FINC4014 EXOTIC OPTIONS AND STRUCTURED PRODUCTS**

The first part of the course deals with non-standard options such as Asian options, asset or nothing options, binary options, barrier options, quantoes, cliquets, shout options, compound options, rainbow options. The 2nd part of the course deals with how to combine various derivatives with stocks and bonds to create structured products in order to meet the changing needs of customers.

Pre-requisite: FINC3000 Derivative Securities

#### **FINC7010 CORPORATE FINANCE**

This course offers students a more advanced understanding of important concepts in the field of corporate finance. It covers basic topics including capital budgeting, alternative valuation methods, capital structure decisions, corporate payout policy, securities offering decisions, as well as more advanced topics (optional) such as corporate governance, mergers and acquisitions, and corporate risk management. The objective of this course is to provide students with essential tools to study more advanced courses in finance.

Pre-requisite: None

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## **FINC7011      MANAGERIAL FINANCE**

Managerial Finance is one of the core courses in finance. Everyone cares about real business impact of corporate decision. All businesses have to allocate their resources timely and wisely, finding the right opportunity to invest, seeking the right mix of financing to fund these investments, and returning cash to shareholders if not enough good projects. The most fundamental objective of is to maximize firm value, no matter it is large, publicly listed companies or small, privately run businesses.

The purpose of this course is to introduce you to capital markets in which firms invest and to give you an understanding of important factors that can affect corporate valuation. All of corporate finance is built on three principals, the investment, financing and dividend decisions. Consequently, any decision (investment, financial, or dividend) that increases the value of a business is considered a good one, whereas one that reduces firm value is considered a poor one.

The material in this course will help to evaluate key decisions made by managers of the firm, covering cases in both emerging countries and developed economies. All students of this course should have an international orientation. Besides, we will also analyse firms across their life cycles, especially focus on the estimation of early stage. A startup is not a smaller version of a large company. The subsequent stages of valuation for those young firms can become more explicit since the entrepreneur will have to give up some shares in return for external funding. Topics include advanced capital budgeting and capital raising including venture capital and initial public offerings and mergers and acquisition will also be introduced as a foundation to linked more advanced future studies.

Pre-requisite: BECO7011 Economics for Business

## **FINC7024      INVESTMENTS AND PORTFOLIO MANAGEMENT**

This course focuses on designing and managing investment portfolios for investors. It introduces students to investment media and techniques. It analyzes capital market theories, the pricing efficiency of security markets, investment strategies, and investment performance evaluation. Topics therefore include investor risk preferences, modern diversification theory, securities analysis, asset pricing models derivative instruments (models and real world behavior), investment strategies. Investment strategies include both the passive and active strategies, technical trading strategies and trading strategies arose from market anomalies.

Pre-requisite: None

## **FINC7026      INTERNATIONAL BANKING AND BANK MANAGEMENT**

This course is structured around the microeconomic problems of financial management of banking firms. It focuses on decision making and offers a unique approach to understanding commercial bank management. Topics to be covered include banking trends and competition, performance analysis, liquidity planning, interest rate risk management, credit risk analysis, cost of funds, and capital management. Both domestic and international banking activities will be examined. The objective of this course is to provide the student with the conceptual framework necessary to analyze and comprehend the current problems confronting managers of commercial.

Pre-requisite: None

## **FINC7035      FINANCIAL RISK MANAGEMENT**

This course focuses on risk management techniques in multinational corporations and credit risk management. A strand of risk management topics would be covered such as foreign exchange, money market instruments, derivative products, risk exposure of corporations, measurement of exposure, and risk management in financial institutions. The credit risk will discuss various economic and financial factors that affect credit quality of corporations, evaluating corporation's debt servicing ability and their likelihood of default. Topics covered will include business and financial risk analysis, debt covenants, security structures, credit scoring and credit rating models.

Pre-requisite: None

**FINC7041 ADVANCED TOPICS IN FINANCE**

This course covers advanced topics in finance that may arise due to the advances in the areas of corporate finance, investment and banking. The topics will be timely and may arise through emerging theory, new model or empirical research in the finance world.

Pre-requisite: None

**FINC7054 INTRODUCTION TO MODERN FINANCIAL TECHNOLOGY**

The financial industry is undergoing profound changes in the past several years. With the arrival of new technologies, financial services firms are increasingly using these new technologies to increase their efficiency, develop new businesses and services, and revolutionize their marketing practices. The lines between financial services and technology firms have also blurred, as we are seeing more and more technology companies venturing into the finance industry, particularly in China.

This course aims to provide you with an overview of FinTech and its implications within the finance industry and beyond. We will review companies in the FinTech industry, their businesses, products, and technologies. We will also cover the basic technologies that power the FinTech revolution, such as Artificial Intelligence (AI), Blockchain (B), Cloud Computing (C), and Big Data (D). We will also discuss FinTech's current status and future trends. After this course, you will have a basic understanding of the FinTech landscape and be ready to explore more about it.

Pre-requisite: None

**FINC7055 WEALTH MANAGEMENT**

The objective of this course is to introduce the financial planning process and apply some of the tools to formulate investment plans for managing, preserving and growing wealth across the client segments the high net-worth individuals.

Pre-requisite: None

**FINC7056 MACAO'S ECONOMY**

It covers topics on the economic development and transition of Macau; the China-Portuguese speaking countries economic cooperation; integrated resorts, gaming, and hospitality industries in Macau; and banking and finance sectors of Macau. Special topics such as green development projects employed by the integrated resort operators, and Macau's economic collaboration within the Greater Bay Area are discussed. The objective is to provide a foundation of current economic and financial developments in Macau to evaluate gaps and find opportunities for future economic and financial developments.

Pre-requisite: None

**FINC7057 FINANCIAL MARKETS AND INSTITUTIONS**

This course covers the structure, functions, operations and regulations of financial markets and institutions. It covers the latest developments in the financial industry, such as financial leasing, RMB clearing centres. We examine markets such as bond markets, stock markets, foreign exchange markets including Renminbi market, derivative markets, and will also examine the role of financial institutions such as commercial banks and mutual funds. This course will be helpful to identify potential financial markets developments that are suitable for Macao under the public desires in developing its featured finance.

Pre-requisite: None

**FINC7058 INTERNATIONAL FINANCE AND DERIVATIVES**

This course is designed for MSc in Finance students to understand international finance and derivative securities. Students will apply the knowledge of mathematics of finance to the pricing and valuation of derivatives in general and currency derivatives in particular, e.g., forwards, futures, swaps, and options. Discussions will be extended to concepts of how to use derivatives to speculate, hedge and arbitrage. General topics covered are pricing models, trading strategies, and risk management using the derivatives.

Pre-requisite: None

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**FINC7991 PROJECT REPORT**

Students are required to identify a real financial issue faced by companies and provide a data driven solution in the Project Report. The issue can come from any finance area, and can be local or international in scope.

Pre-requisite: None

**FINC8013 ASSET PRICING**

This course is an introduction to asset pricing. It discusses classical asset pricing theoretical and empirical findings. It also discusses various factor strategies that have been developed based on the market efficiency debate.

Pre-requisite: None

**FINC8014 CORPORATE FINANCE**

This course introduces the basic theory of corporate finance and the related empirical studies. Various topics in corporate finance might be covered, such as investment, capital structure, dividend policy, financial intermediation, initial and seasoned public offerings, market for corporate control, corporate governance, etc. Empirical econometric tools would also be discussed with related papers in the area of corporate finance.

Pre-requisite: None

**FINC8015 FINANCIAL ECONOMICS**

This course introduces the theoretical foundations of modern financial economics. The emphasis of this course is on the theoretical underpinnings of the field and the evaluation of models built to address the empirical regularities observed in the financial market. The emphasis will largely be on discrete-time models, though we will deal with continuous-time methods in some places.

Pre-requisite: None

**FINC8350 CONTEMPORARY ISSUES IN INTERNATIONAL FINANCIAL MANAGEMENT**

This subject exposes students to contemporary issues in financial reporting and corporate disclosures, with particular emphasis on cross-country comparisons of regulatory frameworks, the role of information intermediation, external monitoring by investors, and disclosure regulations. The primary objectives of the subject are to provide students with an indepth understanding of voluntary and mandatory financial reporting and corporate disclosures; and the link between disclosures and the capital markets, as well as with the institutional and legal environments of the economy.

Pre-requisite: None

**FINC8351 PROJECT MANAGEMENT**

This course guides students through fundamental project management concepts and behavioral skills needed to success-fully launch, lead, and realize benefits from projects in profit and nonprofit organizations. Successful project managers skillfully manage their resources, schedules, risks, and scope to produce a desired outcome. In this course, students explore project management with a practical, hands-on approach through case studies and class exercises.

Pre-requisite: None

**FINC8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

**IRTM1000 INTRODUCTION TO INTEGRATED RESORT MANAGEMENT**

The objective of this course is to acquaint students with the basic structure of hospitality industry and integrated resorts. Topics to be covered include the history and the recent progress

of the hospitality industry, fundamentals of tourism industry, principles of restaurant operations and food services, hotel and lodging operations, MICE etc. In addition, principles of leadership and hospitality management will be discussed. After completing this course, students will possess a solid foundation to further their studies in particular subjects of hospitality management.

Pre-requisite: None

### **IRTM2000 INTRODUCTION TO GAMING MANAGEMENT**

This course aims to provide students with an overview of the composition and attributes of the gaming industry. Both demand-side and supply-side issues are to be tackled. In addition, public policy and managerial issues associated with the practice of the gaming and related industries are discussed with reference to the general and unique features of various societies. To enhance students understanding of the characteristics of gambling products, common forms of games offered by the casino are introduced whilst related managerial issues are reviewed. After completing this course, students are expected to possess the basic knowledge to pursue their junior and senior studies in other gaming-related subjects.

Pre-requisite: None

### **IRTM2001 PSYCHOLOGY OF GAMBLING**

This course focuses on the application of psychological knowledge to gambling behaviors. Topics include motivations, decision-making strategies, cognitive heuristics and biases, group and social influences, and pathological addictive gambling behaviors.

Pre-requisite: None

### **IRTM3000 SOCIAL AND ECONOMIC IMPACTS OF GAMBLING**

This course deals with the variety of issues surrounding gambling and commercial gaming in the area of public policy, social and economic impacts. Emphasis will be placed on the costs and benefits analysis of gambling in different domains: individual, household, community as well as macro economy. Special attention will be given to the relationship between gambling, political corruption, neighborhood crime and organized crime.

Pre-requisite: IRTM2000 Introduction to Gaming Management

### **IRTM3001 QUALITY SERVICE MANAGEMENT**

Quality service has been seen as a key marketing tool, playing an increasing role in contributing to customer experiences, determining their current satisfaction level and the possibility of repeated visits. Based on the frameworks of service quality model in services marketing and quality management in general businesses, this course expands to the service management within the hospitality and entertaining businesses. It aims to raise students' awareness of the importance of quality services to the industry success and addresses issues concerning delivering, designing and managing quality service systems at all levels. The role of the customer in service delivery and how this impacts on the operation of a successful service in various organizations are also explored.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3002 CONVENTION AND EXHIBITION MANAGEMENT**

The objective of this course is to provide students an opportunity to explore and understand convention and exhibition industry. This course will acquaint students with an overview of MICE industry. Topics to be covered include an overview of MICE industry, physical requirements, marketing, management and operation of convention and exhibition facilities. Emphasis is also placed on the planning and organization of conventions, meetings and exhibitions.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3003 CASINO MANAGEMENT**

This course gives students an advanced introduction to the casino environment. At the end of this course, students are expected to demonstrate a strong working knowledge of casino operations and the interrelationship of the casino with other major departments. Casino

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Management is also designed to introduce students to the development of gaming, the internal and external environment of casinos, marketing strategies, and the social, cultural and economic issues of gaming. In addition, the course will cover such topics as game protection/cheating and scams.

Pre-requisite: IRTM2000 Introduction to Gaming Management

### **IRTM3004 THE MACAO GAMING AND HOSPITALITY INDUSTRIES**

This course familiarizes students with the particular situation, the changing structure and performance of Macao's gaming and hospitality industries. On top of explicating the significance of casino gaming in the Macao economy and conditions to ensure its sustained growth and modern development, recent progress and prospects of the non-gaming hospitality industries and their interrelationship with casino gaming since 2002 will be explored. To accomplish these objectives, historical and cultural settings, institutions and institutional changes associated with the progress of the related industries will be examined extensively.

In addition, reasons and consequences from the in-depth adjustments of the gaming industry between 2014 and 2016 will be uncovered. Moreover, impacts from the recent pandemic to the industry, and potential changes in the industrial organization and performance following the regulatory revisions in 2022 will be explored. Finally, implications from the development of the Pearl River Delta region as a polycentric mega-city region (i.e., the Greater Bay Area project) to these industries will also be underlined.

Pre-requisite: None

### **IRTM3005 FESTIVAL AND EVENT MANAGEMENT**

Festivals and events are seen as unique attractions and image-markers for many tourism destinations, and are playing an increasing role in attracting and retaining customers in the gaming and entertaining businesses. This course aims to enhance students' understanding of the roles and impacts of festivals and events on destinations, with particular reference to the gaming and entertaining industry; and equip them with the knowledge and skills in planning, managing, and marketing events, conventions and meetings, festivals and special events.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3006 HUMAN RECOURSE MANAGEMENT IN INTEGRATED RESORTS**

Human resource management is an important field of study in recognition of its growing significance to the Integrated Resort (IR) industry. This course provides an opportunity for students to explore contemporary and emerging human resource management issues faced by various sectors of the industry. Special focus will be diverted to the related issues as presented in the gaming and hospitality sectors. In-class performance is extremely important as it is similar to daily work environment in the hospitality industry.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3007 TECHNOLOGY AND INNOVATION IN THE RESORT AND GAMING INDUSTRIES**

This course is designed to introduce students to the strategic applications of information and communication technologies (ICT) innovations in the hospitality, casino, integrated resorts (IR), and tourism industry and to deliver the fundamental understanding of technological advancement in the IR industry. Through case studies and in-class discussions, students will learn how hospitality and IR companies can utilize ICT infrastructures and tools to achieve or maintain their comparative advantages in the market.

Pre-requisite: None

### **IRTM3008 TRAVEL AND TOURISM MANAGEMENT**

This course offers student an introduction to the travel and tourism industries and aims to prepare students to plan and implement various tourism activities and manage different tourism products. Issues in master planning and managing tourism in various geographical and environmental settings will be addressed. Core topics include tourism destination planning, development of tourism products, and marketing strategy. It will also highlight the importance

of sustainability and environmental awareness in tourism management.

Pre-requisite: None

### **IRTM3009 FOOD AND BEVERAGE MANAGEMENT**

Food and drink are essential components of any hospitality and tourism industry, including integrated resorts. This course covers the key principles and skills required for the effective management of food and beverage operations. It seeks to develop students' understanding and application of the main strategic, managerial, and operational factors that characterize successful food and beverage management. Topics covered include menu planning, food purchasing, receiving, preparation, producing, serving, and marketing. Students will also learn about current trends, health and hygiene issues, legal requirements, and ethical obligations in the food and beverage industry.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3010 SELECTED TOPICS IN HUMAN RESOURCE MANAGEMENT**

This course provides an opportunity for students to explore contemporary and emerging human resource management issues faced by various industries. Special focus will be diverted to the related issues as presented in the gaming and hospitality sectors. Possible topics include, but not limited to, conflict management and team management, cross-cultural human resource management, incentive systems, management education and training. The content of this course will be kept flexible between semesters as to best answer interests of the instructors and the students. In principle, prior approval from the program coordinator is needed for offering this course.

Pre-requisite: MGMT3005 Human Resource Management

### **IRTM3012 GAMING LAW**

The purpose of this course is to familiarize students with various sets of legal rules that apply to the gaming industry in the Macao SAR, focusing especially on casino games of chance. The field is somewhat complex given that the legal regulation of gaming in Macao arises from various legal disciplines. Consequently, the course has an interdisciplinary nature and covers issues of constitutional law, administrative law, tax law, company law, contract law and criminal law.

Pre-requisite: None

### **IRTM3014 HOSPITALITY AND TOURISM LAW**

This course aims to introduce significant laws and administrative regulations governing the hospitality and tourism industries in Macao SAR. The students will have the opportunity to learn legal and regulatory issues facing key activities, including providing travel services, operation of hotel establishments, licensing and running of restaurants and entertainment venues, and provision of various goods and services. The course will introduce the nature of the legal system of Macao SAR and the essential features of its constitutional, administrative, criminal, civil and commercial laws related to the industries. Specific legal topics of public and private law to be covered in the course include law and regulation of hotel operations, travel agencies, restaurants and entertainment services; the legal relation between innkeepers and guests; contracts and civil liability; protection of consumer rights; agency contract and the relation between agencies, tour guides and tourists; prohibition of illegal inn keeping and pensions; regulatory bodies and dispute resolution.

Pre-requisite: None

### **IRTM3015 REVENUE MANAGEMENT**

This Subject of study introduces students to 'Revenue Management' which is a demand based pricing system employed in the hospitality and tourism industry. The use of Revenue Management is seen as a critical change in the setting of price in the hospitality and tourism industry and, coupled with information technology, especially the internet, is having long term strategic impacts on the industry. This unit also explores the role and function of the 'revenue manager' the key executive responsible for managing the pricing and supply policies in hotels

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and airlines within the hospitality and tourism industry.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3016 CASINO MARKETING**

The course aims at giving students sufficient conceptual and theoretical as well as practical knowledge underpinning casino marketing in the context of the fast evolving sub-field of Services Marketing. Services in most developed economies like Macao, is the largest sector contributing to their respective GDP. Tourism and leisure activities (which include gaming and in particular casino) contributes a significant proportion of the value added in the services sub-sector. With projects and case analysis, the students are expected to become familiar with the marketing practices of firms in the industry both here and in the gaming entertainment centers in US, Europe, Australia and other places. The course will be delivered through lectures, case analysis and projects. Together the students are expected to gain an integrated knowledge of both theory and practice and impart in the students some capabilities for undertaking casino marketing planning, execution and evaluation.

Pre-requisite: IRTM2000 Introduction to Gaming Management

### **IRTM3017 ACCOMODATION, FACILITIES AND SECURITY MANAGEMENT**

The course Accommodation, Facilities and Security Management is broadly divided into three components. The first component embodies the management knowledge required to analyze and appreciate stakeholder needs in terms of hotel feasibility, hotel investment strategies, rate of return on investment, service provider contract negotiation, and necessary compliances in an era of 'asset light' industry expansion. The second component focuses on management procedures for the effective planning and maintenance of hotel services in terms of addressing asset preservation and achieving customer satisfaction. It includes an overview of key facilities management functions (engineering, maintenance, housekeeping, guest related accommodation services and external contracting of services – i.e. outsourcing) and places emphasis on evidence-based management analysis to achieve an appropriate balance between investment interests and customer needs. The final component of the course examines security issues, broadly defined to include asset management and preservation, insurances, and customer and employee security).

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

### **IRTM3018 CASINO MATHEMATICS**

This course is designed for students who are interested in application of probabilities, statistics and other quantitative methods in issues that arise in legal commercial industries, especially, in casino industry. Students are expected to be able use the appropriate math tools learnt in the course to analyse the performance of casino games, casino promotions/comps, VIP programs, as well as to monitor and identify suspicious casino tables, etc. They are also expected to be able design a new casino game that is feasible and profitable in the casino floor.

Pre-requisite: IRTM2000 Introduction to Gaming Management AND ISOM2002 Statistics and Data Analysis or IRTM2000 Introduction to Gaming Management AND ISOM2003 Probability and Statistics

### **IRTM4000 STRATEGIC MANAGEMENT FOR THE RESORT AND GAMING INDUSTRIES**

This course discusses how corporations should analyse, formulate and implement strategy in gaming and hospitality businesses. Students will learn contemporary tools of strategic management, include analyzing industry attractiveness, determination of competitive advantages and positions, etc. this course provides economic and marketing underpinnings of some of these tools so that students can conduct critical and independent analyses in the gaming and hospitality context. The design of this course is a mixture of strategic tools and case applications.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management AND IRTM2000 Introduction to Gaming Management



#### **IRTM4001 RESORT MARKETING AND PROMOTION**

The course is designed to provide students with an understanding of the fundamental role of marketing in the hospitality sector. While revisiting basic marketing concepts learned in previous marketing courses, the course will illustrate the application of marketing knowledge onto the hospitality sector. Upon completion of the course, students should be able to analyze the hospitality environment, devise, execute and evaluate marketing plans with reference to the hospitality sector.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

#### **IRTM4002 GLOBAL ISSUES IN RESORT AND GAMING MANAGEMENT**

This course provides an overview of development and proliferation of gaming and hospitality business in the U.S. and throughout the world over the past decade, as well as the management issues associated with the integration between these two sectors. Focus will be placed on the international aspects of gaming and hospitality development, interrelationship between these two industries, regional cooperation and competition in the tourist market, and public policies issues.

Pre-requisite: None

#### **IRTM4003 PROFESSIONAL DEVELOPMENT IN CONVENTION AND HOSPITALITY INDUSTRY**

Being a professional person in the convention and hospitality industry, students need to have strong interpersonal and problem solving skills in interacting with customers. The goals of this course are to equip students with relevant knowledge and to guide them to transform the knowledge into practice within the context of convention and hospitality. At the end of this course, students will be able to develop strong confidence in this professional.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

#### **IRTM4004 GAMING MANAGEMENT INTERNSHIP**

This course is designed to provide a broad exposure to the operations of gaming industry and knowledge of the structure, goals and work procedures of the agency by participating in guided observations and activities. This work-study programme is limited to Year 3 or Year 4 students who are enrolled in the Gaming Management Stream. Students in the Internship are supervised directly by professionals in the Agency, who communicate directly with the University Instructor. While each learning experience will differ depending on the type of agency, situation, and duration. Instructor will guide and assist the students through their professionally-oriented learning experience. At the end of their internship, students are able to enter their chosen profession with confidence.

Pre-requisite: IRTM2000 Introduction to Gaming Management

#### **IRTM4005 GRADUATION PROJECT ON GAMING MANAGEMENT**

This course is designed to familiarize students with managing academic/business project in relation to the contemporary management issues of the gaming industry. This course is limited to Year-4 students who are enrolled in the Gaming Management Stream. Students are expected to productively take part in a cross-functional project team, conduct extensive studies on selected topics and provide suggestions to address related issues. Findings must be supported by using appropriate quantitative and/or qualitative methods.

Pre-requisite: IRTM2000 Introduction to Gaming Management

#### **IRTM4006 CONVENTION AND HOSPITALITY MANAGEMENT INTERNSHIP**

This course is designed to provide a broad exposure to the operations of hospitality industry (including the hotel and the Meetings, Incentives, Conferences & Exhibitions (MICE) industries) and knowledge of the structure, goals and work procedures of the agency by participating in guided observations and activities. This work-study program is limited to Year 3 or Year 4 students who are enrolled in the Convention and Hospitality Management Stream. Students in the Internship are supervised directly by professionals in the Agency, who communicate directly with the University Instructor. While each learning experience will differ depending on the type

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of agency, situation, and duration. Instructor will guide and assist the students through their professionally-oriented learning experience. At the end of their internship, students are able to enter their chosen profession with confidence.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

#### **IRTM4007 GRADUATION PROJECT ON HOSPITALITY MANAGEMENT**

This course is designed to familiarize students in managing academic/business project in relation to the contemporary management issues of the convention and hospitality industry. This course is limited to Year-4 students who are enrolled in the Convention and Hospitality Management Stream. Students are expected to productively take part in a cross-functional project team and conduct extensive studies on selected topics and provide suggestions to get around the issues. Findings must be supported by appropriate quantitative and/or qualitative methods.

Pre-requisite: IRTM1000 Introduction to Integrated Resort Management

#### **IRTM4008 QUESTIONNAIRE DESIGN AND SURVEY DATA ANALYSIS**

This course aims to teach students a systematic approach in addressing a business concern through effective questionnaire design, appropriate analysis and correct business interpretation. Particularly, in the design stage, students will learn to transform practical business concerns (e.g., poor customer loyalty) into analytical problems (e.g. what are the factors that affects customer loyalty?), decide on the possible variables to be included for study (through literature review, interviews with managers and customers, etc.), and then choose what types of questions to be included in the questionnaire (i.e., which questions had to be answered through analyzing a set of variables?). Students will also learn to select an appropriate analytical method for each problem, conduct the analysis in SPSS, and then interpret the SPSS output results to form useful recommendations for the industry.

Pre-requisite: ISOM2002 Statistics and Data Analysis

#### **IRTM4009 SPECIAL TOPICS IN HOTEL AND RESORT MANAGEMENT**

This course aims to familiarize students with the latest issues and topics in hotel and resort management. It allows students to develop skills related to unique aspects of hotel and resort that are not currently covered in other courses in the programme. Special topics may include one or more of the followings: big data in hotel and resort management, cross-cultural management issues, customer relationship management, environmental management, facility management, service quality management, leadership management, and/or other advance topics in hotel and resort management. This course will improve students' global perspectives of the hospitality industry and further enhance their communication skills.

Pre-requisite: None

#### **IRTM7010 INTERNATIONAL INTEGRATED RESORTS MANAGEMENT**

This course introduces students with the newest concepts of Integrated Resort (IR) management. It discusses the inner workings of the hotel, gaming, entertainment and resort industry. Aside from the organizational structure and functions of each department, students will gain an understanding of the interaction and the logistics involved in ensuring the constant and uninterrupted output of services across all functions to ensure complete guest satisfaction within an integrated resort setting. This fundamental understanding of operations and basic managerial responsibilities will provide for a deeper and broader appreciation of the complexities and challenges of managing the daily operations of an IR. After completing this course, students will be able to have a fundamental understanding of the integrated resorts from a local and global perspective. Learning outcomes of communication and logistic skills will also be emphasized in this course.

Pre-requisite: None

#### **IRTM7011 INTERNATIONAL HOSPITALITY MARKETING MANAGEMENT**

This course seeks to equip students with the key conceptual, analytical and problem solving skills to address marketing problems and decisions. Specifically, it introduces students to

various marketing analyses (customer, competitor and company analysis) and marketing strategies. Tools and methods used in planning and implementing the four Ps (product, price, place and promotion) will be explored. Service marketing basics will be emphasized. This course integrates theory and practice within the context of organizations operating locally and globally. After completing this course, students will also be able to advance their research and analytical skills.

Pre-requisite: None

### **IRTM7012 MANAGING HUMAN RESOURCES AND PERSONNEL PSYCHOLOGY IN INTEGRATED RESORTS**

This course aims to develop within students the capacity to understand the complexity of managing people. Participants of this course will carry out an in-depth investigation into such topics as recruitment, compensation, and training. This course will also examine the personnel psychology when managing human resources. It will introduce participants to current debates within human resource management. After completing this course, students will also be able to enhance their communication skills and should be able to formulate organizational strategies for integrated resorts.

Pre-requisite: None

### **IRTM7013 MANAGERIAL FINANCE IN INTEGRATED RESORTS**

This course introduces the principles and practices of financial management. It describes financial decision making processes for firms where the desired outcome is the creation of wealth for shareholders. The first objective is to develop an appreciation for the relevance of financial theory and its empirical validation. The second objective is to provide a set of opportunities to productively link theory with practice. The third and last objective is to let the students understand the process of value creation and the principles of "value based" management. Topics in this course include the time value of money, financial analysis and planning, cost of capital, capital budgeting, capital structure, working capital management, long-term financing decisions, dividends policy, mergers and acquisitions and the international dimensions of finance especially in the integrated resorts and hospitality industry. Research and analytical skills will also be emphasized within the module.

Pre-requisite: None

### **IRTM7014 INTEGRATED RESORTS MANAGEMENT INTERNSHIP**

The internship programme is designed for students who have no prior working experiences in the related hospitality fields. The aim of this programme is to allow these students to get familiar with the hospitality work settings so as to better prepare them to join the workforce after graduation. Students undergoing the internship will be based in a company whose focus is cognate with the gaming and hospitality industry. The nature of the internship will vary depending on the requirements of the company. Students are responsible for searching for their own placements. However, the overall structure and timing must be agreed with the programme director, the employer and the student. Students will be expected to work full time with the company in the gaming and hospitality industry for a period of at least 560 hours. Students can take the internship programme in the day time. A report has to be submitted after the internship. Students who are working full time with at least 2 years supervisory or managerial experience at the time of application will be able to exempt from this internship course. Students who are working full time without 2 years of supervisory or managerial experience at the time of application will be able to waive from the internship course. All other exempt or waive cases will be subjected to special approval on case by case bases. After completing this internship, students will be able to advance their communicational skills and have a better understanding of the industry in order to formulate organizational strategies for the integrated resorts.

Pre-requisite: None

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**IRTM7031 EVENT AND ENTERTAINMENT MANAGEMENT**

This course focuses on examining the unique characteristics of the event and entertainment industry. It gives advanced knowledge of how to research, organize, stage, manage and market different types of events and entertainment. This course examines the challenges that the industry faces and will cover topics such as basic event industry concepts, feasibility, venues and sites selection, legal compliance, risk management, marketing strategies, sponsorship and event bids. Students will be able to progress their communication, research and analytical skills. Pre-requisite: None

**IRTM7032 FOOD AND BEVERAGE MANAGEMENT**

This course focuses on the overview of the management of the food and beverage operations. Topics for discussion include advanced knowledge in food and beverage trends, food and wine pairings, event caterings such as marketing, contract writing, food production, room arrangement, and personnel required for specific catered events and operation issues such as purchasing, service, and cost controls management. Emphasis will be placed on techniques and practices in the food and beverage operations. Case studies and best practices from the industry will be adopted. The importance of communication skills will be advanced in this course. Pre-requisite: None

**IRTM7033 LODGING MANAGEMENT**

This course aims to provide students an overview of the lodging management. Students who successfully complete this course will have advanced knowledge of how the lodging industry operates. This course will equip students with the required knowledge and skills that are essential in the lodging industry. Emphasis will be placed on techniques and practices in the lodging operations. Students will also be able to develop an understanding of lodging management from an international perspective and advancing their analytical skills. Pre-requisite: None

**IRTM7034 HOTEL REVENUE MANAGEMENT**

This course aims to provide students with concepts of revenue management in the hotel sector and discuss how managers can maximize hotel revenue by using forecast information in capacity management, discount allocation and duration control. Detail discussions will be on how revenue management decisions are affected by group room sales, transient room sales, food and beverage activities, local and are wide activities, special events and seasonality factors. Upon course completion, students will have further developed their research and analytical skills, with a greater understanding of the strategic perspective in formulating organizational strategies in integrated resorts. Pre-requisite: None

**IRTM7035 GAMING AND CASINO OPERATION MANAGEMENT**

This course aims to give students an advanced knowledge to the gaming industry development and management around the world. A central focus will be the rationale of gaming legalization and its economic impacts in different countries. In addition, this course also gives students an overview of the operations in casinos. An emphasis will be on current trends of the casino operations as well as the primary management and financial elements that are unique to operating a casino. Topics will also cover the game protection/cheating and scams, internal theft, and other table and non-table games that are important when managing a casino business. An outcome is that student will have a greater international perspective towards gaming and casino operations management. Communication skills will be advanced after completing this course. Pre-requisite: None

**IRTM7036 CROSS CULTURAL GAMBLING PSYCHOLOGY**

This course focuses on the application of psychological knowledge to gambling behaviors. Topics include motivations, decision-making strategies, cognitive heuristics and biases, group and social influences, and pathological addictive gambling behaviors. Students will be able to

better formulate organizational strategies for integrated resorts and enhancing both their communication and analytical skills.

Pre-requisite: None

### **IRTM7037 TRAVEL AND TOURISM MANAGEMENT**

This course provides student an overview of the unique characteristics of the travel and tourism industry. It emphasizes on examining advanced knowledge in travel and tourism industry system and will cover issues related to the impact of tourism planning and development. This course is designed to use a practical and pragmatic approach to understand travel and tourism management. Case studies and best practices will be emphasized in this course with global insights and perspectives. Research and analytical skills will be further developed as an outcome of this course.

Pre-requisite: None

### **IRTM7038 RETAIL MANAGEMENT IN INTEGRATED RESORTS**

This course discusses different activities and decisions that retailers face everyday. Students will learn major issues related to marketing and management in retailing. After taking this course, students should be equipped with advanced knowledge of understanding and solving the challenges faced by retail stores especially in integrated resorts, managing and marketing retail operations, as well as communicating effectively with customers. As a result, communication skills will be advanced after completing this course.

Pre-requisite: None

### **IRTM7039 SERVICE QUALITY MANAGEMENT IN INTEGRATED RESORTS**

This course provides students an overview of service quality management in integrated resorts. This course will equip students with the essential knowledge and service quality skills that are required in the industry. Quality analysis and enhancement issues are emphasized. Students will further progress their research and analytical skills as a result of taking this module.

Pre-requisite: None

### **IRTM7040 SPECIAL TOPICS IN INTEGRATED RESORTS**

This course aims to familiarize the students with the latest issues and topics in integrated resort. It allows students to develop skills related to a special aspect of integrated resort not presently covered in the other integrated resort related courses offered in the programme. Special topics may include one of the following: Global Issues in Integrated Resorts Management; Technological Advances in Integrated Resorts; Cross Cultural Communication in Integrated Resorts Management; Service Quality Management in International Hospitality; Customer Relationship Management in Integrated Resorts; Crisis Management in Integrated Resorts; Leadership in Integrated Resorts; Facility Management in Integrated Resorts; Environmental Management in Integrated Resorts; or other advance topics in Integrated Resorts Management. These courses are designed to improve and progress global perspectives in integrated resort management, with communication skills being further developed.

Pre-requisite: None

### **IRTM7041 STRATEGIC MANAGEMENT IN HOSPITALITY INDUSTRY**

This course provides students with the challenge of integrating different functional skills and applies them to actual business cases especially in the hospitality industry. Consequently, strategic management is a capstone course, where students will deepen their understanding of how competitive advantages, business strategy, corporate strategy, and international strategy impact the success or failure of companies. Research and analytical skills with ability to better formulate organizational strategies will be improved as outcomes for this module.

Pre-requisite: None

### **IRTM7042 DIRECT MARKETING AND CUSTOMER RELATIONSHIP MANAGEMENT IN INTEGRATED RESORTS**

This courses aims to equip students with key knowledge and skills in direct marketing and

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customer relationship management. It will cover the core elements of customer relationship management and topics such as customer decision making, customer loyalty, strategic formation and key developmental processes of customer relationship management will be included. Advances and critical processes in direct marketing will also be emphasized. Students will be able to diagnose and establish customer relationship management strategies and direct marketing strategies that support integrated resort objectives. Case studies and best practices will be emphasized, with an enhanced ability in communication, research and analytical skills upon course completion.

Pre-requisite: None

#### **IRTM7051 RESEARCH METHODS**

This course aims to equip students with the knowledge and skills in conducting research for the hospitality industry. Students will be able to diagnose and identify research problems, collect relevant quantitative and qualitative data, propose alternatives and solutions, and report recommendation to business professionals in the hospitality industry. The ability for students to conduct research and analysis will be enhanced as an outcome from this module.

Pre-requisite: None

#### **IRTM7052 INFORMATION TECHNOLOGY IN TOURISM AND HOSPITALITY INDUSTRIES**

This course aims to provide the basic understanding of information technology used in hospitality, casino, integrated resorts, and tourism industry. Students can learn the fundamentals of information technology in hospitality and integrated resort industry. Based on in-class discussion and case studies, the course will facilitate students to have their own perspectives on technology developments and the way of utilizing technologies effectively. Communication and problem-solving skills will be advanced after completing this course.

Pre-requisite: None

#### **IRTM7350 STRATEGIC PRACTICE IN INTEGRATED RESORT MANAGEMENT**

This course features a current analysis and examination of the various IR developments within the Asia region, linking theoretical concepts within practical IR considerations. IRs are increasingly a part of tourism and economic rejuvenation and growth but within this are several crucial areas of consideration, foremost portraying a comfortable return on investment to operators and investors given the significant cost and resources needed to develop an IR, with authorities satisfied on the economic and social net benefits through the introduction or expansion of IRs.

Pre-requisite: None

#### **IRTM7991 PROJECT REPORT**

Students are required to identify a real business issue faced by companies and provide a data driven solution in the project report. The issue, which can be local or international in scope, may come from any business functional areas in an integrated resorts context.

Pre-requisite: None

#### **IRTM8010 ADVANCED RESEARCH METHODS IN HOSPITALITY AND GAMING MANAGEMENT I**

This course aims to gear students with research skills pertinent to univariate and multivariate statistic analyses. Accordingly, it will introduce students with statistical tools such as mean comparison, association analysis, and predictive analysis along with factor analysis and structural equation modeling. Research design relating to survey design, scaling and measurement, and sampling will also be introduced. Other possible topics include experimental design, handling categorical variables, and using statistical software.

Pre-requisite: None

**IRTM8011      ADVANCED RESEARCH METHODS IN HOSPITALITY AND GAMING  
MANAGEMENT II**

This course will provide an overview on various research paradigms and research methods used in various business areas. It is designed to familiarize PhD students with the logic discipline, principles of good research design, and various research processes, methodology and strategies that researchers use to address research questions. Topics include the identification of research problems, development of research hypotheses, research designs, data collection and processing, qualitative analyses, and interpretation of results.

Pre-requisite: IRTM8010 Advanced Research Methods in Hospitality and Gaming Management I

**IRTM8012      CONTEMPORARY RESEARCH IN HOSPITALITY AND TOURISM  
MANAGEMENT**

This core course provides PhD students with a topical foundation in hospitality and tourism management research. It introduces students to basic academic theories and concepts relating to hospitality and tourism management. Students will also learn more about current research in these areas. These knowledge will be critical for students to engage in future high-level hospitality and tourism research. They lay the foundation for the generation of more advanced knowledge in this field.

Pre-requisite: None

**IRTM8013      CONTEMPORARY RESEARCH IN INTEGRATED RESORT AND GAMING  
MANAGEMENT**

This core course provides PhD students with a topical foundation in integrated resort and gaming management research. It introduces students to basic academic theories and concepts relating to gaming operation in integrated resort and gaming-related social problems. Students will also learn about state-of-the-art research in these areas. The knowledge will be critical for students to conduct rigorous and impactful gaming research. They lay the foundation for the generation of more advanced knowledge in this field.

Pre-requisite: None

**IRTM8014      RESEARCH WRITING**

Academic writing is a critical skill for academics. This course introduces the principles of good academic writing to business PhD students. The primary purpose is to educate student on the art and science of writing a PhD-level research proposal and dissertation. Specifically, students will learn basic issues to improve their micro and macro writing skills. In addition, this course will introduce students to the process of submitting and publishing in peer-reviewed journals and to academic conferences. Students will also learn more about ethical issues in academic writing, the art of paraphrasing, and how to avoid plagiarism.

Pre-requisite: None

**IRTM8350      CONTEMPORARY ISSUES IN INTERNATIONAL INTEGRATED RESORT  
MANAGEMENT**

Macao is currently positioned itself as the World Centre of Tourism and Leisure as it develops into a quality international tourist destination. Macao takes leading position about tourism and leisure activities in Greater China area. International Integrated Resort Management (IIRM) is one of signature programmes in UM. The objective of this course is to acquaint students with advanced service strategy in IIRM. Topics to be covered include the world history and the recent progress of the hospitality industry, principles of restaurant operations and foodservices, hotel and lodging operations, transportation, etc.

Pre-requisite: None

**IRTM8999      DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

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### **ISOM1001 CONTEMPORARY INFORMATION SYSTEMS FOR ORGANIZATIONS**

This course provides a comprehensive introduction to the evolving field of information systems (IS) from an organizational perspective. A wide range of topics are covered beginning with the fundamentals of systems, information, organizations, the underlying information Technology (IT) as well as the ethical issues for IS/IT in today's enterprises. A contemporary perspective on IT is provided by emphasizing current topics (e.g. IT138 infrastructure and the Internet technology) before presenting the E-commerce and E-business developments which are radically transforming the traditional organizations and our lives. Throughout the course, we explore implications of this new IS/IT - digital firm – scenario for corporate management in today's global business environments.

Pre-requisite: None

### **ISOM1004 APPLIED CALCULUS**

This subject is to provide students with basic skills of mathematical analysis, which is the core of many quantitative disciplines such as Optimization, Financial Mathematics, Statistics, and Econometrics. The syllabus emphasizes an approach to mathematics of a more abstract and conceptual kind. This emphasis is designed to help students cope with more advanced mathematics that they will meet in their senior years. Topics include: further techniques of differentiation and integration, improper integrals, Riemann integral, numerical integration, infinite sequences and series, and introduction to Ordinary Differential Equations.

Pre-requisite: ISOM1002 Business Mathematics or GEST1001 Quantitative Reasoning for Business or Equivalent course

### **ISOM1005 INTRODUCTION TO BUSINESS INTELLIGENCE AND INFORMATION**

This is an introductory course which aims to provide students with a general understanding a business intelligence (BI) and the different career options and associated responsibilities of BI professionals. This course will introduce the procedures for the execution of a BI project, various layers of a BI architecture, and what career track one can choose to work on based on your areas of interest in a BI project. Real world exams of BI projects will be presented. Industry leading tools and technologies for BI projects will also be presented.

Pre-requisite: Any course from GE science and technology area

### **ISOM2002 STATISTICS AND DATA ANALYSIS**

This course aims to provide an opportunity for business students to understand and appreciate the broad use of statistics and probability in business world. The objectives are to demonstrate how to summarize, present and analyze data using commonly available statistical computing tools and to introduce the principles and procedures of statistical theories, which are important for making business decisions. The emphasis here is on developing the ability to effectively communicate statistical data and the results of analysis.

Pre-requisite: ISOM1002 Business Mathematics or GEST1001 Quantitative Reasoning for Business or Equivalent course

### **ISOM2005 LINEAR ALGEBRA**

This course equips students with basics of linear algebra. which has wide applications to diverse areas in natural science, engineering, business and social science. It covers linear equations, matrices, determinants, vector spaces, linear transformations, inner product and orthogonality, eigenvalues and eigenvectors, least squares problems and quadratic forms. The course emphasizes matrix and vector calculations, and its applications to finance and statistics.

Pre-requisite: ISOM1002 Business Mathematics or GEST1001 Quantitative Reasoning for Business or Equivalent course

### **ISOM2006 E-COMMERCE AND M-COMMERCE STRATEGIES**

This course examines the linkage between organizational strategy and electronic methods of delivering products and services in the Web as well as mobile environment, and information technology strategies and technological solutions for enabling effective business processes. It presents the theoretical foundations necessary for understanding ecommerce and commerce,



ranging from consumer behavior to economic theory of competition. Topics such as commerce types, e-strategy, e-commerce economics, m-commerce types, m-strategy, social networking, mobile marketing, social marketing, local and location-based marketing, collaborative commerce, and Webbased supply chain systems are presented from the theoretical point of view as well as from the application side.

Pre-requisite: Any course from GE science and technology area

### **ISOM2007 PROGRAMMING FOR BUSINESS ANALYTICS**

This course introduces the foundation of programming for data analysis with Python. This course is meant for students to get acquainted with key programming and design techniques as well as various libraries of Python, allowing them to understand, analyze, and solve data analytical problems through programming. It involves both theoretical and practical components. Upon the completion of this course, students are expected to have a solid foundation on the basic concepts of programming and technical skills required for scientific computing problems.

Pre-requisite: Any course from GE science and technology area

### **ISOM3000 DATABASE MANAGEMENT**

Database management is the foundation of any information systems. In this course, students will have ample opportunity to learn the theoretical concept of relational database in the context of information systems. Database management systems are used to effectively store, access and manipulate data as well as provide data security, data sharing and data integrity. This course emphasizes on both theories and hands-on experiences and most of the concepts will be explained through practical examples. The course work includes a term project in which students are required to design and implement a relational database for business firms. Microsoft ACCESS and PHPMyAdmin will be used as the main software package for students to gain hands-on experience. In-depth tutorials on commercial database management systems including Oracle and SQL Server will be given as well.

Pre-requisite: ISOM1001 Contemporary Information Systems for Organizations or any course from GE science and technology area

### **ISOM3002 ANALYSIS AND DESIGN OF INFORMATION SYSTEMS**

The objective of this course is to provide students a theoretic foundation and technique of system analysis and design. To understand the importance of system analysis, information system concepts and techniques for data collection will be introduced prior to covering analysis and modelling tools. Discussion of process specifications and structured decisions, cost/benefits analysis and preparation of system proposal will be covered. Lastly, a variety of development tools will be introduced. Upon completion, students should be able to analyse and design different real systems.

Pre-requisite: ISOM1001 Contemporary Information Systems for Organizations or any course from GE science and technology area

### **ISOM3012 WEB SITE DESIGN AND INTERNET BUSINESS APPLICATIONS**

This course provides students with the knowledge and skills needed to build and design web applications. Students will be exposed to best practices for analyzing, designing, developing, testing, and deploying web applications. Students will also be taught the skills required for developing seamless and integrated service for businesses in the internet.

Pre-requisite: ISOM3028 Advanced Computer Programming

### **ISOM3014 ADVANCED COMPUTER NETWORKING FOR BUSINESS**

This course is an advanced networking course for business students. As computer networking is a one of the major components to support big data and business intelligence for business operation. In-depth knowledge for modern networking technologies is definite advantages for career development. Topics to be covered include basic enterprise network architectures, enterprise network construction; IP addressing; Internet Protocols; IP frame forwarding, filtering and routing; and different computer networking services.

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Pre-requisite: ISOM3016 Computer Networking for Business

### **ISOM3015 BIG DATA MANAGEMENT**

Traditional relational databases systems and data warehouse platforms are no more enough to manage big data. This course discusses concepts, management, analytics and impact of big data on nowadays environment. It introduces the core technologies for big data management, and architectures and ecosystems, and helps students gain knowledge in designing, managing and evaluating big data solutions. By working on lab exercises and group project, students will develop skills in solving big data management problems in real-world business contexts.

Pre-requisite: ISOM3000 Database Management

### **ISOM3016 COMPUTER NETWORKING FOR BUSINESS**

This course covers topics on network applications, network administration, telecommunications and issues related to computer networking for business. Students will also have the opportunity to have a hands-on approach to build a computer network. As computer networks are essential in modern business transactions, this course is required for all business students.

Pre-requisite: None

### **ISOM3018 BUSINESS DATA MINING AND VISUALIZATION**

This course provides a comprehensive discussion to data mining (DM) problems, and introduces DM tools to enhance business decision making in common business contexts – accounting, sales, marketing, customer relationship management, etc. Through this course, students will understand the process and concepts of data mining approach, be familiar with mainstream techniques and their potential pitfalls when delivering business intelligence solutions, and be able to adopt appropriate data visualization tools to create and study the visual presentation of data. Students will work extensively with commonly used business data mining software in analyzing realistic business datasets. Upon the completion of this course, student will gain data analytical skills for effective digital storytelling, business communication, and presentation.

Pre-requisite: None

### **ISOM3025 BUSINESS MODELING AND SIMULATION**

The purpose of the course is to provide an understanding of the principles of simulation methods and their application to a variety of common management decision problems. On successful completion of the subject student will understand the principles of simulation techniques, appreciate the advantages and disadvantages of simulation methods, and be able to recognize business problem types that can or must be approached using simulation

Pre-requisite: FINC2002 Statistics for Finance or ISOM2002 Statistics and Data Analysis or ISOM2004 Data Analysis and Modelling

### **ISOM3028 ADVANCED COMPUTER PROGRAMMING**

This is an advanced course in software development using the programming language C++ or Java. Students are to study algorithms design of programmes with a background of data and file structures and some advanced features of the objective-oriented programming language. At completion of this course, students should be able to use the tools and techniques introduced to develop well-structured and fully documented programmes to solve business problems of various types.

Pre-requisite: ISOM2007 Programming Business Analytics or ISOM3029 Computer Programming using C++

### **ISOM3029 COMPUTER PROGRAMMING USING C++**

This course provides an introduction on business programming. It covers basic concepts of structured programming and programming languages, techniques of programme structure and algorithm design, the data/object types, the control structures, the functions and libraries, arrays and input/output and friendly user interface. One core issue of the course is to emphasize on the problem-solving skills and the structured programming techniques through

some business examples, especially some finance examples. Upon completion of this course, students are expected to have sufficient knowledge and skills to define cost effective algorithms for both business and system applications.

Pre-requisite: None

### **ISOM3030 QUANTITATIVE DECISION ANALYSIS**

This course provides a survey of the quantitative techniques that are used by modern managers. Topic coverage will focus on model building, linear programming methods, network models, and regression models. Emphasis is placed on the use and limits of these quantitative methods. Model analysis will be done using EXCEL and related Add-ins.

Pre-requisite: FINC2002 Statistics for Finance or ISOM2002 Statistics and Data Analysis or ISOM2003 Probability and Statistics

### **ISOM3031 FORECASTING MODELS IN BUSINESS**

This course provides students with an understanding of the theory and practice of business forecasting, as applied to real data and practical problems in forecasting. In particular, students will be taught the formal procedures of identifying and understanding characteristics of time series data in business and economics, and the basic skills for developing and analyzing models for forecasting time series data. At the end of the course, students should be able to use a standard computer package to carry out these analyses.

Pre-requisite: ISOM2002 Statistics and Data Analysis or ISOM2004 Data Analysis and Modeling

### **ISOM3033 ADVANCED CALCULUS**

The course introduces concepts and skills of calculus of functions of several variables and the basic theory of differential equations, as well as Fourier analysis and calculus of variations that are useful to understand other mathematical techniques applied to modelling in the financial markets. The emphasis will be on the basic understanding of the concepts, techniques and applications.

Pre-requisite: ISOM1004 Applied Calculus

### **ISOM3035 OPERATIONS MANAGEMENT**

This course is intended to be a survey of operating practices and models in both manufacturing and service oriented firms. It is intended to equip students with sufficient knowledge concerning the operations function and to better prepare them to make informed "total business decisions". It also introduces students to standard terms and concepts for communications with operations personnel. In such a course, it should be recognized that breadth of subject matter, not depth of topic, will be the goal. We will often use cases for classroom discussion. Operational issues to be discussed include designing, acquiring, operating, and maintaining the facilities and processes; purchasing raw materials; controlling and maintaining inventories; and providing the proper labor needed to produce a good or service so that customers' expectations are met.

Pre-requisite: FINC2002 Statistics for Finance or ISOM2002 Statistics and Data Analysis or ISOM2004 Data Analysis and Modeling

### **ISOM3036 CYBER SECURITY AND BLOCKCHAIN**

This course aims to provide students with the knowledge and skills necessary to identify security threats and vulnerabilities that may arise in an Internet-based business environment as well as to evaluate and implement protective measures. Topics to be covered include cyber security threats; types of malware, attack vectors, and prevention; risk analysis and management; authentication with access control, passwords, two-factor authentication; symmetric and asymmetric cryptography; network security such as firewalls, virtual private networks, intrusion detection / prevention; and Blockchain concepts, benefits, issues, and real world application examples to support students in understanding how blockchain may improve data security in the cyber space.

Pre-requisite: Any course from GE science and technology area

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### **ISOM3037 INTERNET OF THINGS AND CLOUD COMPUTING WITH BUSINESS APPLICATIONS**

The explosive proliferation of the Internet of Things (IoT) is digitalizing the world, increasing the volume of big data, and fueling the rapid development of business intelligence and data analytics. At the same time cloud computing enables the achievement of coherence and economies of scale through sharing of resources. This course is designed with two parts which offers students with a comprehensive understanding from the technical view, while emphasizing the socio and economic impacts, of IoT and cloud computing. Part One overviews the current components of typical IoT devices, IoT design considerations, design trade-offs of hardware and software, and technological constraints and limitations; Part Two introduces the fundamental understanding of cloud computing, cloud segments, and cloud deployment models. Cloud services, cloud security, and economic impacts of cloud computing adoption will be provided. This course also discusses a variety of business application scenarios of IoT and cloud computing via case studies.

Pre-requisite: Any course from GE science and technology area

### **ISOM3038 FINANCIAL TECHNOLOGY**

Financial technology (FinTech) is exerting tremendous impact on financial industries. This course offers students with empowering and practical knowledge on FinTech, helping them understand the disruptions happening now and will happen in the future in the financial services. Students will gain a broad understanding of cryptocurrencies, blockchain, smart contract, decentralized applications, P2P lending, crowdfunding, and machine learning. Students will also acquire practical skills to deliver prescriptive solutions to business and financial problems in the real-world.

Pre-requisite: CISC1000 Information Technology Fundamentals and Practices

### **ISOM3039 STATISTICS FOR BUSINESS APPLICATIONS**

This course aims to provide students with solid training in the principles and procedures of statistical inference, which are essential for making business decisions. Analysis of complex business problems arising in practice requires understanding fundamental statistical principles and knowing how to use suitable modeling techniques. Computing using statistical software is also an essential element of modern statistical practice. This course provides students with these skills by introducing them to a variety of statistical inference procedures and linear statistical models using mainstream statistical software packages.

Pre-requisite: ISOM2002 Statistics and Data Analysis

### **ISOM4005 BUSINESS PROJECT MANAGEMENT**

This course covers the principles, processes, and strategies of project management for businesses. Students learn the roles and responsibilities in a typical project management team throughout the project life cycle. The course emphasizes the 10 areas of Project Management Body of Knowledge (PMBOK®) — project integration management, project scope management, project time management, project cost management, project quality management, project resource management, project communications management, project stakeholder management, project risk management, and project procurement management. Quality standards and market trends affecting project management are introduced, such as International Organization for Standardization (ISO), Six Sigma, globalization, outsourcing, virtual teams, and agile project management.

Pre-requisite: ISOM1001 Contemporary Information Systems for Organizations or any course from GE science and technology area

### **ISOM4006 PROJECT AND QUALITY MANAGEMENT**

This course aims to familiarize students with the fundamental concepts of the environment and process of project management, so they will be able to productively take part in a cross-functional project team and potentially lead a real-world business project. Students will learn to understand the common practices and issues in project planning and control, and to effectively make use of project management techniques and tools to ensure that the project

meets its deliverables and is completed on schedule and within budget. Topics to be covered include: the project life cycle; project planning and organizing; project scope and time management, resource considerations, project budget and control, leading project teams. Basic quality management concepts will also be introduced and applied to project planning and execution.

Pre-requisite: FINC2002 Statistics for Finance or ISOM2002 Statistics and Data Analysis or ISOM2004 Data Analysis and Modeling

#### **ISOM4007 GRADUATION PROJECT**

This course is the capstone of the Business Intelligence and Data Analytics (BIDA) programme. Students will group in teams to undertake a full end-to-end development of a solution to address a real-world data analytics problem. The project involves initial problem definition, conceptualization, data collection, data analytics, and solution delivery.

Pre-requisite: ISOM3018 Business Data Mining and Visualization and ISOM4008 Machine Learning for Business Intelligence

#### **ISOM4008 MACHINE LEARNING FOR BUSINESS INTELLIGENCE**

This course helps students make sense of business datasets using programming languages for machine learning and visualization. The course provides students with an understanding of a scientific procedure for systematic data analytics. It introduces the popular algorithmic solutions to big data exploration, supervised learning, unsupervised learning, and visualization. Upon the completion of this course, student will gain data analytical skills for common machine learning and visualization problems in business domain.

Pre-requisite: ISOM2007 Programming for Business Analytics

#### **ISOM7010 BUSINESS TECHNOLOGY MANAGEMENT**

This course introduces the application of business process and technology management in the workplace and equips students with the required knowledge and skills. Topics include concepts of the information systems (IS) and its strategy in the net-mediated and global economy, the elements of a business process, business process changes with IT, the establishment of process standards and tools, implementation issues, strategic technology management and emerging industries, benchmarking, knowledge management, as well as new business paradigms and models.

Pre-requisite: ISOM7001 Statistics

#### **ISOM7012 STATISTICAL ANALYSIS AND APPLICATIONS**

This course aims to introduce postgraduate students to basic statistical techniques for analyzing data in business world. The objective is to provide an opportunity for students to learn how to effectively choose the correct statistical techniques and communicate sample data and results of analysis. The emphasis is placed on how to run data analysis with the use of statistical softwares in order to achieve the above objective.

Pre-requisite: None

#### **ISOM7013 INFORMATION MANAGEMENT AND DIGITAL INNOVATION**

This course emphasizes the strategic and management issues associated with the effective use of information technology. Topics in this course include information systems (IS), databases, enterprise applications, technology trends, business models, network effects, disruptive technologies, big data, business intelligence, and digital innovations. The course will provide students with an understanding of how IS can affect an organization's processes and operations, and impact its strategic and competitive advantages. It will help students to (1) recognize the strategic role of IS in contemporary business organizations, (2) understand the key concepts and issues related to new business models, and (3) understand how emerging information technology influences business firms of the future.

Pre-requisite: None

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**ISOM7015 FUNDAMENTALS OF BUSINESS ANALYTICS**

This fundamental course introduces basic concepts of big data, descriptive analytics, predictive analytics, and related tools. It elaborates on practical topics like data collection, data exploration, feature selection, data transformation, data visualization, data mining, model evaluation, and business insights deriving. The hands-on case studies mainly focus on using Python programming to implement data analysis processes in business contexts. Popular analysis tools, including NumPy, Pandas, seaborn, SciKit-Learn, etc. will be employed for tutorials and exercises. It will also discuss privacy concerns and responsibility issues related to data analysis. This course will set the foundation for other courses in this program.

Pre-requisite: None

**ISOM7016 STATISTICS FOR BUSINESS ANALYTICS**

The purpose of this course is to improve students' analytical skills by covering the fundamentals of data-driven decision making. It introduces students to modern data analysis using R, with an emphasis on business applications. Main topics to be covered include data wrangling, exploratory data analysis, statistical inferences, regression analysis, and time series analysis. Students will have the ability to apply these skills to real-world business issues.

Pre-requisite: None

**ISOM7021 BUSINESS MODELING AND DECISION ANALYSIS**

Business Analytics help optimize decisions for the design and management of operations systems and production processes. This course introduces concepts and tools for modelling and optimizing business decisions. Emphasis is on problem formulation, solution development, and managerial insights delivery. Decision on problems in various business scenarios, such as production, marketing, manufacturing, transportation and the like will be extensively discussed. R language will be used as the primary analytical tool.

Pre-requisite: None

**ISOM7022 DATABASE AND BIG DATA MANAGEMENT**

Analyzing structured data requires understanding the fundamentals of relational databases and practical skills in Structured Query Language (SQL). In addition, the rapid development in social media and smart devices resulted in an explosion of semi-structured or unstructured data available for analysis. New data management techniques hence need to be adopted to handle a large amount of data for analysis. This course emphasizes database concepts and practical skills to analyze structured data through SQL. This course also introduces network risk management, which helps organizations identify and mitigate potential cyber threats, maintain network stability, and ensure secure data process and analysis. In addition, the new trends of data management will be covered. Finally, techniques used to process big data such as Apache Spark and PySpark will be introduced.

Pre-requisite: None

**ISOM7030 SERVICE OPERATIONS**

This course provides an overview of supply chains and operations management. It also contains an analysis of policies, decisions and systems that produce goods and services and an examination of the role of comprehensive planning, materials management, resource scheduling, distribution systems, and system location in service operations. Quality analysis and enhancement issues and processes are also introduced.

Pre-requisite: None

**ISOM7031 MACHINE LEARNING WITH BUSINESS APPLICATIONS**

Machine learning is a key component of big data analytics, business intelligence, and fintech. This course introduces machine learning techniques and focuses on insights about structuring business problems and implementing machine learning-based solutions.

This course will introduce state-of-the-art machine learning techniques, including clustering, classification, ensemble methods, and neural networks, with a special focus on their applications. Students will learn in-depth knowledge of machine learning and apply the

acquired skills to deliver effective solutions. This course will elaborate the hands-on use cases of machine learning solutions for customer retention, product recommendation, risk analysis, demand prediction, etc. in businesses. Python and the state-of-the-art machine learning packages will be used as the primary tools. The issues in responsible machine learning will also be discussed.

Pre-requisite: None

### **ISOM7032 SOCIAL NETWORK AND TEXTUAL ANALYSIS**

Social media is a rich source of big data. Knowing the most effective ways to mine social media data can help firms acquire information and derive insightful business results. Social media is unstructured and dynamic, thus requiring new analytical tools and techniques for analysis. This course aims to provide hands-on experience for students to use various tools and techniques specifically geared to social media to understand customers' trends, and make predictions that can improve sales growth. Practical business cases in user segmentation, customer review analysis, community structure mining, influencer detection, etc., will be discussed. Python and the state-of-the-art machine learning packages will be used as the primary tools.

Pre-requisite: ISOM7031 Machine Learning with Business Applications

### **ISOM7033 TOURISM ANALYTICS**

This course introduces data-driven approaches to deriving business insights for tourism. The course first overviews the fundamentals and concepts associated with analytical approaches to tourism management decision-making. Then the key quantitative and analytical tools for tourism management are elaborated. This course also discusses the future development of smart tourism and tourism analytics. Students will gain hands-on experience by solving various practical problems using analytical programming.

Pre-requisite: ISOM7015 Fundamentals of Business Analytics

### **ISOM7041 ECONOMETRICS AND HIGH-DIMENSIONAL DATA ANALYSIS**

This course introduces the principles and techniques for econometric modeling of real data in various business domains. The basic ideas and important techniques for causal inference will also be covered. This course will also elaborate on the modern analysis of high-dimensional business data. The primary topics include multiple testing, methods for causal inference, singular value decomposition, principal component analysis, factor analysis, penalized regression analysis, and classification analysis of high-dimensional data. This course includes hands-on analysis of real-world business cases from domains such as finance, marketing, supply chain management, and manufacturing to apply the econometric and high-dimensional analytical techniques. Students will use R to analyze complex data sets to solve predictive problems in various business functions.

Pre-requisite: ISOM7016 Statistics for Business Analytics

### **ISOM7098 PROJECT REPORT**

This course is a practical project course in which students will ground on theoretical concepts and apply practical skills to address relevant business problems. The students, under the supervision of their supervisor, will identify a relevant analytical problem and offer a data-driven solution that adheres legal, ethical, and professional codes. The results will be summarized into a written report and explained in an oral presentation.

Pre-requisite: None

### **ISOM7300 PROJECT MANAGEMENT STRATEGY**

This course offers insights into the frameworks, methods, techniques, and tools for coping with the 10 areas of Project Management Body of Knowledge (PMBOK). In addition, global project management challenges in terms of political, economic, infrastructure and logistics, cultural, and legal issues will be discussed. International case studies support students in bridging what they learn with real world practices. Group projects allow students to apply their knowledge to project management challenges and issues. Upon completing the course, students are expected to understand the critical issues and processes in project management.

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Pre-requisite: None

### **ISOM7350 DIGITAL STRATEGY FOR BLOCKCHAIN AND FINTECH DEVELOPMENT**

Technological innovations is playing an important role in creating and sustaining competitive advantage. This course will introduce the core concept of blockchain and its latest applications in the delivery of financial services from the strategic management perspective. Management issues related to the adoption and use of blockchain and fintech will be highlighted. The purpose of this course is to develop the capacity of students to analyze business problems and identify appropriate IT-based solutions to achieve business-IT alignment. Case studies and group projects are important features of this course.

Pre-requisite: None

### **ISOM7351 LOGISTICS AND SUPPLY CHAIN MANAGEMENT**

Supply Chain Management is a core function in modern business, irrespective of industry or size. The purpose of this Logistics and Supply Chain Management course is to provide students with a solid understanding and insight into the fundamentals of supply chain management. Key areas covered by the course include, among others, supply chain strategies, planning and inventory management, procurement and logistics management. After completing this course, students are expected to understand the key concepts and techniques to manage and improve supply chain processes.

Pre-requisite: None

### **ISOM8011 QUANTITATIVE RESEARCH METHODS FOR INFORMATION SYSTEMS**

This course applies various theories to explore the functions of information and technology within diverse organizations and markets, as well as their role in facilitating the development of new organizational structures. The course focuses on quantitative research methodologies within information systems. It comprises three main components: Methodology, Information Systems (IS) Research Topics, and Writing and Publishing.

Pre-requisite: None

### **ISOM8012 ADVANCED TOPICS IN DECISION SCIENCES**

This course covers advanced topics in decision sciences and operations management. The course is conducted through lectures and literature sharing sections. In the literature sharing sections, instructor(s) and students share the research literature found from top journals in the field of decision sciences and operations management.

Pre-requisite: None

### **ISOM8013 MATHEMATICAL MODELLING IN DECISION SCIENCES**

This course aims to provide a broad introduction of mathematical modelling methods, which are widely applied in operations management, information system and marketing. The course covers different theoretical models and tools needed to analyze, understand, and optimize businesses' decision-making. This course is designed to equip students with a deep theoretical and practical understanding of complex market interactions and business strategies and can help students who are interested in theoretical research to start their own research agendas.

Pre-requisite: None

### **ISOM8014 STATISTICAL METHODS FOR BUSINESS ANALYTICS**

This course provides conceptual understandings of modern statistical methodologies for business analytics. Statistics plays a fundamental role in all aspects of academic research. In the information age, it is crucial to comprehend statistical methods and their applicability in different scenarios. The course covers topics such as parametric estimation and evaluation, hypothesis testing and regression models. Towards the end of the course, we will further explore current themes of statistics study that bring insights to business research and practices. This includes a discussion of classic statistics papers in sparse regression, factor models, and measuring and modelling with high-frequency data.

Pre-requisite: None



**ISOM8300 TECHNOLOGY ADVANCEMENT AND APPLICATION FOR BUSINESS MANAGEMENT**

Technology in business is a growing necessity. As the years go by, the business world is leaning more and more toward it, making it almost impossible to separate the two from each other. Innovation breeds business, and since technology paves the way for it, it can be gathered here that business needs technology to be sustained. This course offers multiple independent sessions discussing how advanced technology is now applying in doing research, innovation and entrepreneurship, and influencing business administration and management in the modern world. Many state-of-art technology will be discussed.

Pre-requisite: None

**ISOM8350 STATISTICAL ANALYSIS FOR BUSINESS AND MANAGEMENT RESEARCH**

This course is designed for DBA participants who want to learn or to refresh their understanding of basic to more advanced statistical applications that are commonly used in management research (both academic and industrial). This course will be much more practical and "hands on" than theoretical. In that sense, it is much more about data analysis than statistics, per se. Emphasis will be on such matters as inputting data, transforming and manipulating data, formulating strategies for data analysis, strategies for analyzing a database, performing statistical techniques using common software packages, interpreting results and formulating the next steps.

Pre-requisite: None

**ISOM8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

**MGMT1000 PRINCIPLES OF BUSINESS MANAGEMENT**

This is an introductory course regarding the nature and environment of business and its role in the society. It also provides an overview of the concepts related to basic functions of management.

Pre-requisite: None

**MGMT2000 BUSINESS COMMUNICATIONS**

This is an introductory course regarding practical and professional understanding of business communication skills and core competencies needed to deal effectively with internal and external audiences. Applications of communication theories will also be covered. Students will also learn to effectively produce and present various data and information convincingly and professionally.

Pre-requisite: MGMT1000 Principles of Business Management

**MGMT2001 ORGANIZATIONAL BEHAVIOR**

Organizational Behavior (OB) is the study of human behavior within organizations. It looks into the many factors that have an impact on how people and groups act, think, feel and respond to work and organizations, and how organizations respond to their environments. The course focuses on the key concepts and theories from behavioral and social sciences that form the bases for understanding human interaction in the workplace. It covers a wide range of topics that include values, perception, personality, motivation, decision making, group processes, communication, leadership, and power and politics. After completing this course, students should be able to: understand the basic concepts and theories related to managers and employee behavior; apply the concepts and theories introduced to solve problems in an organizational context; and develop a better appreciation of their own values, ability and personality.

Pre-requisite: MGMT1000 Principles of Business Management

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### **MGMT3000 GLOBAL BUSINESS ENVIRONMENT**

This course introduces students to the dimensions and complexity of global business environment. Students will learn what modern business corporations need to adapt in the global business environment and develop individual sensitivity and competence in the global work context.

Pre-requisite: MGMT1000 Principles of Business Management AND MKTG2000 Principles of Marketing

### **MGMT3001 INTERNATIONAL MANAGEMENT**

This course is a study of international management issues with an aim to improve managerial effectiveness and organizational performance in a global environment. Several organizational and behavioral issues will be examined in an international context, which include ethics, management of international operations and control, motivation, leadership, communications and negotiation, and corporate culture. Theories of cross-cultural differences will also be discussed in depth.

Pre-requisite: MGMT3000 Global Business Environment or ISOM3026 E-Business and Global Business Environment or BECO3010 Global Economic Issues and Business Implications

### **MGMT3002 COMPETITIVE ADVANTAGE**

This course intends to provide a fundamental analysis on how firms can gain competitive advantage in single and multiple businesses. It draws on recent contribution to the analysis of competitive advantage by focusing on the need to identify, develop and exploit firm resources and capabilities, and exploring the industry dynamics to offer insight into the sources of success and guidance in the formulation of competitive strategies.

Pre-requisite: MGMT3003 Strategic Management

### **MGMT3003 STRATEGIC MANAGEMENT**

This course introduces students to the process of strategy formation, formulation, and implementation. Students learn to integrate functional knowledge in business and to apply strategic management tools in case studies.

Pre-requisite: MGMT1000 Principles of Business Management AND FINC2000 Financial Management AND ACCT1000 Principles of Financial Accounting or MGMT1000 Principles of Business Management AND FINC2003 Corporate Finance AND ACCT1000 Principles of Financial Accounting

### **MGMT3004 RESEARCH METHODS**

This course prepares students to understand the role and importance of research in business. It also enables students to plan methodologically sound research studies, to execute them, and to analyze research results. Knowledge and skills acquisition include: problem identification; literature review; theoretical framework development; hypotheses formulation; research design selection, data collection, data analyses, report writing, and differentiation between sound and unsound research. Students are required to conduct a research project as group.

Pre-requisite: MGMT1000 Principles of Business Management AND MKTG2000 Principles of Marketing AND ISOM2002 Statistics and Data Analysis

### **MGMT3005 HUMAN RESOURCE MANAGEMENT**

The course provides students an overview of contemporary theory, analysis, and practice in the field of human resources management (HRM). It introduces students to the fundamental and strategic role of HRM in today's organizations. It aims to develop in the students a stronger capacity to grasp the complexity of managing people and the ability to form intelligent opinion about various challenges facing HR practitioners. Broad areas of concern include the main HR functions such as recruitment, selection and retention of human resources, training and development of people, employee assessment and compensation.

Pre-requisite: MGMT1000 Principles of Business Management

**MGMT3006 HUMAN RESOURCE PLANNING AND STAFFING**

The course focuses on the crucial role of planning and staffing in the overall human resource strategy of the company. It aims to familiarize students with the knowledge and tools to assess the future supply and demand for human resources in organizations, and the methods to attract, select and retain qualified employees. Students will find many opportunities in both classroom discussions and field research to test the congruence of theory and practice. In the process, they should be able to enhance their analytical and problem-solving skills.

Pre-requisite: MGMT2001 Organizational Behavior

**MGMT3007 ORGANIZATIONAL CHANGE AND DEVELOPMENT**

Organizational Behavior (OB) is the study of human behavior within organizations. It looks into the many factors that have an impact on how people and groups act, think, feel and respond to work and organizations, and how organizations respond to their environments. The course focuses on the key concepts and theories from behavioral and social sciences that form the bases for understanding human interaction in the workplace. It covers a wide range of topics that include values, perception, personality, motivation, decision making, group processes, communication, leadership, and power and politics. After completing this course, students should be able to: understand the basic concepts and theories related to managers and employee behavior; apply the concepts and theories introduced to solve problems in an organizational context; and develop a better appreciation of their own values, ability and personality.

Pre-requisite: MGMT2001 Organizational Behavior

**MGMT3008 QUALITY MANAGEMENT**

This course introduces students to the core concepts and techniques of total quality management (TQM) and its implementation in organizations. Major topics include the evolution of the Quality Management concepts, quality control circles, quality enhancement tools, and the implementation of TQM. At the end of the course, students are expected to understand the underlying philosophy of TQM, evaluate the strengths and limitations of some quality systems such as ISO9000, and appreciate the challenges of sustaining an organization which is capable of delivering a quality product.

Pre-requisite: MGMT1000 Principles of Business Management

**MGMT3009 BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY**

The aim of this course is to provide students with the knowledge, critical thinking skills and understanding to make ethically sound business judgments and decisions when faced with complex and difficult problems. In this course, students will have an opportunity to build a strong foundation for their own ethical development as a citizen, employee, manager or corporate leader.

Pre-requisite: MGMT1000 Principles of Business Management

**MGMT4000 GLOBAL STRATEGIC MANAGEMENT**

The course takes a global perspective in the strategic management process and discusses how multinational corporations should formulate and implement strategy in various regions of the world. It covers contemporary tools of strategic management and their applications to multinational corporations.

Pre-requisite: MGMT3003 Strategic Management

**MGMT4001 GLOBAL HUMAN RESOURCE MANAGEMENT**

This course examines key problems and issues regarding management of global human resources. These include how recruitment and selection, training and development, compensation, performance evaluation should be done for multinational corporations. Other topics include expatriate management and ethics and health and safety issues in global Human Resource.

Pre-requisite: MGMT2001 Organizational Behavior

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### **MGMT4002 ASIAN BUSINESS**

This course provides an overview of the business landscape in major Asian countries, highlighting both similarities and differences across countries. Students will explore unique organizational structures in Asian countries, such as chaebol in Korea, keiretsu in Japan, and family businesses in China. The course will also provide a conceptual framework that emphasizes the impact of cross-country institutional and cultural settings on business practices in Asia.

Pre-requisite: MGMT3000 Global Business Environment OR ISOM3026 E-Business and Global Business Environment OR BECO3010 Global Economic Issues and Business Implications

### **MGMT4003 CROSS-CULTURAL COMMUNICATION IN BUSINESS**

This course provides a framework for identifying and analyzing diverse cultural approaches to interpersonal and business communication. It aims to enhance students' awareness of their own cultural biases, and to provide students with the skills to successfully and sensitively interact in different cultural settings. Students will be introduced to various negotiation strategies and will learn how to adapt such strategies to prevailing cultural contexts.

Pre-requisite: MGMT3000 Global Business Environment OR ISOM3026 E-Business and Global Business Environment OR BECO3010 Global Economic Issues and Business Implications

### **MGMT4005 MANAGEMENT OF FOREIGN AFFILIATES**

This course studies how multinational corporations manage the ownership and control of activities across international markets through various organizational forms or modes of foreign entry. These organizational forms of international cooperation include wholly owned subsidiaries, branches, and representative offices; and the new forms such as international joint ventures, alliances, management contracts, franchising, licensing and mergers.

Pre-requisite: MGMT3000 Global Business Environment or ISOM3026 E-Business and Global Business Environment or BECO3010 Global Economic Issues and Business Implications

### **MGMT4006 ENTREPRENEURSHIP MANAGEMENT**

This course is about creation and management of new ventures. Key topics include the concept of entrepreneurship, identification and evaluation of entrepreneurial opportunities, financing of new ventures, government policies promoting innovation and new venture creation, and small business management. Students will also learn how to formulate business plans.

Pre-requisite: MGMT1000 Principles of Business Management

### **MGMT4009 TRAINING AND DEVELOPMENT**

Training and Development (T&D) builds on teaching and learning theories in providing students an overview of contemporary theory and practice in the field. They are exposed to the whole T&D process and are expected to demonstrate what they have learned through in-class training presentations. Moreover, students are also expected to research on current T&D practices in the region. Course topics include training and development theories, learning motivation, T&D needs assessment, design and delivery, transfer of training, T&D strategies, and the management and evaluation of T&D programmes.

Pre-requisite: MGMT2001 Organizational Behavior

### **MGMT4010 PERFORMANCE AND COMPENSATION MANAGEMENT**

As core components of human resource management system, performance and compensation management play important roles in achieving organizational strategic goals and promote companies' competitive advantages. This course provides students a comprehensive understanding of performance and compensation management from strategic and systematic perspectives, and knowledge of the relevant practices and skills. The course is designed to discuss the context of performance management and compensation practice, the criteria used to assess performance and compensate employees, and the design and implementation of

performance and compensation management. It is important for students to understand the relationship between performance management and compensation management, as well as their connection with organizational strategic goals and other Human Resources Management practices.

Pre-requisite: MGMT2001 Organizational Behavior

#### **MGMT4011 EMPLOYEE RELATIONS, SAFETY AND HEALTH**

A well-designed pricing strategy is of critical importance to a company's success. This course is designed to enable students to understand key elements of a sound pricing strategy. Students will learn how different factors (such as costs, competition) influence a firm's pricing strategy and the importance of strategic pricing in achieving business profit and company growth. Upon completion of this course, students are expected to appreciate the complexities of making pricing decisions from a managerial perspective and to be able to conduct analysis of the pricing environments.

Pre-requisite: MGMT2001 Organizational Behavior

#### **MGMT4012 STRATEGIC HUMAN RESOURCE MANAGEMENT**

The course provides students with a strategic approach to human resource management, clearly establishing the link between HRM and corporate strategies. It deals with the importance of "human capital" as a cornerstone of firms' competitive advantages. The course also enables the students to understand and apply processes, techniques, and activities of HRM in order to form and implement organizational strategies amid critical environmental influences.

Pre-requisite: MGMT2001 Organizational Behavior

#### **MGMT4014 CONTEMPORARY ISSUES IN HUMAN RESOURCE MANAGEMENT**

The course gives students an opportunity to examine in some depth a variety of important current issues and trends in HRM. It explores current theory, analysis, and practice in selected areas of the field. The course introduces students to the theoretical and analytical issues shaping contemporary HRM thinking and practice. It also serves as a forum for students to exchange views on both the theoretical and practical aspects HRM as they might apply to the Macao context.

Pre-requisite: MGMT2001 Organizational Behavior

#### **MGMT4015 LEADERSHIP**

This course is designed to provide students with a broad perspective on the practice of managerial leadership and organizational life in the global arena. It enable students to develop the leadership skill, to inspire people to go from vision to action to results, to ensure organization to stay competitive in today's' global competition, global market, organizational turbulence, and a changing workforce marked by higher education and resultant higher expectations, as well as diversity.

Pre-requisite: None

#### **MGMT4016 INNOVATION MANAGEMENT**

The course focuses on the processes and challenges involved in discovering, creating, and managing innovations for organizations. The course also explores how innovation strategies and entrepreneurial skills can create value in products, services, and business models. The module includes application of innovation-related frameworks to specific context and phases of innovation.

Pre-requisite: MGMT1000 Principles of Business Management

#### **MGMT7010 ORGANIZATIONAL BEHAVIOR**

The course presents frameworks for explaining human behavior in the workplace. Through these frameworks, students will be intellectually equipped with tools to manage employees, work teams, and organizations effectively. Topics include basic attributes of individuals, theories of motivation, job design and work arrangements, group development and processes, organizational structure and design, organizational culture and organizational change.

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Pre-requisite: None

### **MGMT7011 STRATEGIC MANAGEMENT**

This course provides students with the challenge of integrating different functional skills and applies them to actual business cases. Consequently, strategic management is a capstone course where students will deepen their understanding of how competitive advantages, business strategy, corporate strategy, and international strategy impact the success or failure of companies

Pre-requisite: MKTG7010 Marketing Management AND MGMT7010 Organizational Behavior

### **MGMT7012 ETHICS AND LEADERSHIP IN ORGANIZATIONS**

This course is designed to provide students a roadmap for effective organization leadership. Through reviewing contemporary theories of leadership and classical theories of ethics, it encourages students to form their own perspectives on leadership and ethics. The course discusses crucial aspects of leadership, such as power, integrity, motivating employees, feedback, and coaching. It also develops students' leadership awareness to address the expectations of diverse organizational stakeholders. Special consideration will be given to the role of ethical leadership in ensuring that firms balance their diverse social responsibilities and maintain robust ethical safeguards, while resolving ethical problems and drawing appropriate lessons from them. The course will incorporate topics on sustainability and SDGs, by doing so, it prompts students to consider the importance of leadership in ensuring the long-term success of firms.

Pre-requisite: None

### **MGMT7013 ENTREPRENEURSHIP**

This course helps students to understand the role and importance of entrepreneurship. It also enables students to recognize their entrepreneurial potential, have an appreciation for opportunity and creativity, ethical issues related to entrepreneurial activities, and develop business planning skills. Instruction will include lectures, class discussion, and workshops. Students will be assessed by tests, assignments, presentation, and formal written reports. Through the activities of this course, students are expected to develop their business plan and identify strategies for managing enterprise growth/exit.

Pre-requisite: None

### **MGMT7014 BUSINESS CONSULTANCY METHODS**

Today's business environment is fast changing and challenging to managers. Business consultants play an important role in helping companies and organizations to understand the complexity of business situations and solve the problems they face. This course aims to introduce to students the business consultancy industry, approaches of diagnosing and analysing business situations, and ways to develop effective solutions to business problems.

Pre-requisite: None

### **MGMT7032 HUMAN RESOURCES MANAGEMENT**

This course aims to develop within students the capacity to understand the complexity of managing people. Participants of this course will carry out an in-depth investigation into such topics as recruitment, compensation, and training. The course will also introduce participants to current debates within human resource management.

Pre-requisite: None

### **MGMT7036 ADVANCES IN MANAGEMENT STUDIES**

This course is designed to students with an overview of contemporary theory and practice for developing innovation in organizations. The nature and characteristics of innovation, together with the key issues that affect the process of change and implementation, will be discussed. Other themes to be covered in the course include organizational learning, knowledge management, learning organization, organizational change and development.

Pre-requisite: MGMT7010 Organizational Behavior

### **MGMT7037 GLOBAL BUSINESS**

This course enables students to conduct analyses of the cultural, legal, political, financial, and economic factors affecting the global business environment. Substantial attention will be paid to integrated, multidisciplinary applications of knowledge. A case-based approach is used.

Pre-requisite: None

### **MGMT7300 MANAGEMENT OF ORGANIZATIONS AND CULTURE**

This course provides a comprehensive analysis of how organizations can be managed effectively in a cross-cultural environment. It discusses the various critical elements for managing individuals and groups with diversified cultural background, including but not limited to job design, motivation and rewards, interpersonal trust building, group dynamics, power, politics, conflicts, and leadership. It helps students develop their management ability in leveraging cultural diversity to achieve organizational performance.

Pre-requisite: None

### **MGMT7301 STRATEGIC MANAGEMENT**

This course identifies the key drivers of persistence of superior firm performance in different industry contexts and uses that understanding to lead formulation of strategy in modern corporations. In this course, students will learn to understand and apply tools for analyzing industry attractiveness, identifying firms' sustainable competitive advantage, developing business and corporate strategies in value chain and geographic dimensions, and implementing strategic plans.

Pre-requisite: None

### **MGMT7350 LEADERSHIP AND ORGANIZATIONAL CHANGE**

This course helps students understand the role of leadership in managing change in the organization. The course will discuss the various challenges organizations face nowadays in the political, economic, technological and social dimensions. It evaluates the development of effective leadership, and explores how leaders can develop plans to initiate and implement major changes in the organizations under the dynamic environment.

Pre-requisite: None

### **MGMT7351 GLOBAL BUSINESS AND STRATEGY**

Students will learn how multinational corporations formulate and implement strategies around the world – be it global, regional or multi-national to gain, sustain and protect their competitive advantages. While maintaining an international perspective, the course also emphasizes the use of management tools and techniques that companies use to meet their strategic objectives.

Pre-requisite: None

### **MGMT8011 ADVANCED RESEARCH METHODS IN MANAGEMENT AND MARKETING I**

This is a seminar course on behavioral research in business. This course provides basic concepts on social theories and scientific laws with respect to the philosophy of science. It covers various stages of behavioral research including research design, measurement scale and development, samples, data collection and statistical analyses such as significance tests, experimental design, multiple regression, mediation and moderating effects, multi-level analysis, confirmatory factor analysis, and structural equation modeling.

Pre-requisite: None

### **MGMT8012 ADVANCED RESEARCH METHODS IN MANAGEMENT AND MARKETING II**

This seminar course provides students in-depth understanding on conducting robust and rigorous research. It covers specific topics in research methodology including quantitative statistical analysis, qualitative research design and analysis, advanced experimental design, and secondary data analysis.

Pre-requisite: MGMT8011 Advanced Research Methods in Management and Marketing I

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**MGMT8013 DOCTORAL SEMINAR IN STRATEGIC MANAGEMENT I**

The seminar course provides an overview of various theoretical perspectives that define the landscape of strategy research. Upon the completion of this course, students will be able to develop a pluralistic understanding about the conceptual development of strategy field and identify new directions and further areas of research. Major strands of theories to be discussed include industry-based view, institution theory, resource-based view, knowledge-based view and strategy process perspective.

Pre-requisite: None

**MGMT8014 DOCTORAL SEMINAR IN ORGANIZATIONAL BEHAVIOR AND HUMAN RESOURCE MANAGEMENT I**

This is a seminar course introducing the major theoretical perspectives pertaining to organizational behavior (OB) and human resource management (HRM) research. It covers the major topics in OB and HRM research and focuses on discussing the various theoretical perspectives employed by current OB and HRM studies. Through intensive in-class discussion, the students can have an understanding on the latest development of OB and HRM theories and generate their perspective on future research directions.

Pre-requisite: None

**MGMT8015 DOCTORAL SEMINAR IN STRATEGIC MANAGEMENT II**

The course serves as the second part of doctoral seminar in strategic management. Upon the completion of this course, students will be able to develop a comprehensive understanding about contemporary topics in strategy for guiding their doctoral research. The course is organized around different thematic issues, including innovation, organizational learning, strategic corporate social responsibility, internationalization, emerging market strategy, nonmarket strategy, strategic alliance, competitive dynamics and others.

Pre-requisite: MGMT8013 Doctoral Seminar in Strategic Management I

**MGMT8016 DOCTORAL SEMINAR IN ORGANIZATIONAL BEHAVIOR AND HUMAN RESOURCE MANAGEMENT II**

This seminar course aims to deepen the students' understanding on the latest trends pertaining to organizational behavior (OB) and human resource management (HRM) research. It focuses on specific topics in contemporary OB/HRM research, and strengthens students' competence in critically challenging existing literature, synthesizing different theoretical perspectives, and developing their own research streams.

Pre-requisite: MGMT8014 Doctoral Seminar in Organizational Behavior and Human Resource Management I

**MGMT8300 LEADERSHIP AND ORGANIZATIONAL CHANGE**

This course is designed to provide students with a broad perspective on the practice of managerial leadership and organizational life in the global arena. It enables students to further enhance the leadership skill in their business operation. Besides, the course presents frameworks for explaining human behavior in the workplace. Through these frameworks, students will be intellectually equipped with tools to manage employees, work teams, and organizations effectively. Topics include basic attributes of individuals, theories of motivation, job design and work arrangements, group development and processes, organizational structure and design, organizational culture and organizational change.

Pre-requisite: None

**MGMT8350 CROSS-CULTURAL BUSINESS STRATEGY**

The purpose of this course is to provide a solid theoretical foundation that can enable CEOs and senior managers charged with the design and implementation of strategic initiatives to develop their critical thinking and analytical skills. It contains a detailed treatment of fundamental theoretical perspectives of strategy, including industrial organization economics, resource-based view, dynamic capability and knowledge management.

Pre-requisite: None



### **MGMT8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

### **MKTG2000 PRINCIPLES OF MARKETING**

This is an introductory course providing students with key concepts and skills underlying the modern practice of marketing. The role of marketing in the organization and in society is also examined. Tools and methods used in planning and implementing the four Ps (product, price, place and promotion) will be explored.

Pre-requisite: None

### **MKTG3000 CONSUMER BEHAVIOR**

This course is designed to provide students with a framework for analyzing consumer behavior by learning about relevant psychological and sociological theories. It focuses on the consumer decision process with emphasis on consumer decision making, satisfaction/dissatisfaction factors, perception, learning, group influences as well as marketing strategies implications.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG3001 BUSINESS-TO-BUSINESS MARKETING**

This course focuses on the key issues and factors to consider when formulating and implementing marketing strategies targeting other businesses and nonprofit organizations. It includes relationship building, alliance and partnership, data interchange, power shifts in the channel, and the impact of changing technology.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG3002 MARKETING RESEARCH**

Marketing managers are required to make enormous number of decisions that have direct impact on consumer experiences and ultimately purchase. This course is designed to equip students with the skills of collecting data, transforming these data into information and developing insights for making effective marketing decisions. Students will be introduced to various techniques and methodologies to plan and execute sound research studies, as well as updated analytical tools to analyse and interpret research results. They will also acquire practical experiences by working on a group research project.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4000 INTERNATIONAL MARKETING**

This course enables students to develop an understanding of the dynamics of foreign markets and learn how to apply the marketing concepts in these environments. Students will be able to gain the necessary skills needed to evaluate and select foreign market opportunities, segment international markets, enter and effectively serve the foreign markets as well as develop and implement marketing strategies at the country, regional, and global level.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4001 INTEGRATED MARKETING COMMUNICATIONS**

Students will be able to exhibit: a critical appreciation of key models and framework within the marketing communications area; critically appraise and develop integrated marketing communications campaigns; show a sound understanding of the advertising process ranging from creative strategy to media strategy; demonstrate an appreciation of the roles and relative contributions of public relations, sponsorship, sales promotion, direct marketing and the internet as communications tools; and understand the differing roles of advertising agency, specialist agency and creative consultancy.

Pre-requisite: MKTG2000 Principles of Marketing

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### **MKTG4002    MARKETING STRATEGY**

This is a capstone course in marketing to train students in consolidating all learnt principles and putting them into making marketing decisions relevant to the long-run performance of organizations. It will introduce students to strategic thinking and also other updated and pertinent issues in marketing strategy. Upon completion of the course, students should be able to recognize the key influencers of success of various marketing decisions and thereby improve their ability in making marketing decisions.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4003    SERVICES MARKETING**

This course seeks to prepare students to function as effective marketers in a services economy, to raise awareness of the nature and characteristics of services as well as to provide more knowledge about service quality, the foundation of services marketing.

Pre-requisite: None

### **MKTG4005    RETAIL STRATEGY**

This course discusses the various activities and decisions that retailers face everyday. It introduces and integrates business, consumer and social concepts to provide an effective framework for the study of retailing. After taking this course, students should be equipped with the knowledge of selecting a store location, managing the retail operation, developing a merchandise plan as well as communicating with customers.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4011    PRICING STRATEGY**

This course will draw on the concepts of economics and marketing to develop approaches useful for pricing decision making. Students are expected to develop a deep appreciation of the complexities of making pricing decisions from a managerial perspective and to be able to conduct detailed analysis of the pricing environments. The elements of a comprehensive conceptual model of the pricing decision will be demonstrated.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4012    CUSTOMER RELATIONSHIP MANAGEMENT**

Nowadays, Customer Relationship Management (CRM) is a popular topic for discussion among marketing practitioners and academic researchers. CRM is gaining importance with the exploding customer data in company databases which may be beneficial to marketers' decision making. This course aims to introduce to students the fundamental CRM concepts and the CRM tools available for marketer's use. Upon completion of this course, students are expected to understand the conceptual background and techniques of CRM, and also be able to critically evaluate the tactical effectiveness of various CRM tools.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4013    DIGITAL MARKETING**

Digital technologies have dramatically changed the way how marketers interact and communicate with customers. Therefore, it is essential that marketers should be well-acquainted with these tools and be able to integrate them into the marketing strategy of the firm. This course will provide students with the basic concepts, principles and theories associated with marketing in the digital environment. They will be familiarized with the various digital platforms including search engines, social media, mobile as well as other forms of new media. This course also prepares students in anticipation of future developments in the digital world.

Pre-requisite: MKTG2000 Principles of Marketing

### **MKTG4014    BRAND MANAGEMENT**

This course will address the strategic importance of branding, provide theories and strategies for building, leveraging, and defending strong brands, and discuss current opportunities and challenges facing brand managers.

Pre-requisite: MKTG2000 Principles of Marketing

#### **MKTG4017 SPECIAL TOPICS IN MARKETING**

This course aims to familiarize the students with the latest issues and topics in marketing. It allows students to develop skills related to a special aspect of marketing not presently covered in the other marketing courses offered in the programme (e.g. Marketing for Non-profit Organizations, Marketing in the Asia-Pacific Region).

Pre-requisite: MKTG2000 Principles of Marketing

#### **MKTG4018 LEISURE AND LIFESTYLE MARKETING**

This course is designed to provide students with an overall understanding of marketing developments in the fast-growing leisure and lifestyle industries (such as tourism, arts and entertainment, accommodation). Students will learn how marketing activities are conducted in leisure and lifestyle organizations and important marketing issues relating to the industries. Upon completion of this course, students should be equipped with the knowledge and skills to apply marketing principles as they pertain to the fast growing leisure industry.

Pre-requisite: MKTG2000 Principles of Marketing

#### **MKTG4019 ANALYTICS FOR MARKETING DECISIONS**

Marketers increasingly found that big data is becoming mainstream and the ability to collect, analyse and generating insights from these data becomes essential to the success of modern enterprises. This course seeks to introduce students to various sources of marketing data as well as a variety of statistical tools available to convert them into useful insights enabling profitable customer acquisitions, retention and growth. Using real world cases and statistics software, this course will bring students through the process of acquiring useful data, choosing relevant analytical methods as well as converting results into meaning insights which can input into major marketing decisions. Data privacy issues will also be explored in this course.

Pre-requisite: MKTG2000 Principles of Marketing AND MKTG3002 Marketing Research

#### **MKTG7010 MARKETING MANAGEMENT**

This course seeks to equip students with the key conceptual, analytical and problem solving skills to address marketing problems and decisions. Specifically, it introduces students to various marketing analyses (customer, competitor and company analysis) and marketing strategies. Tools and methods used in planning and implementing the four Ps (product, price, place and promotion) will be explored. This course integrates theory and practice within the context of organizations operating locally and globally.

Pre-requisite: None

#### **MKTG7030 CONSUMER BEHAVIOR**

The purpose of this course is to study the process of consumer decision making and its determinants, and the resulting implications for marketing strategy. Concepts and theories covered in this course are essential for consumer analysis and the development of effective marketing strategies. A strategic orientation will permeate most facets of this course. At the same time, knowledge of consumer behavior requires an understanding of important theoretical concepts borrowed from fields such as social psychology, consumer psychology, and experimental psychology.

Pre-requisite: MKTG7010 Marketing Management

#### **MKTG7032 ADVANCES IN MARKETING STUDIES**

This course provides students with the opportunity to focus on a particular contemporary issue in marketing. Possible topics come from the fields of internet marketing, brand management, marketing in China and customer relationship management.

Pre-requisite: MKTG7010 Marketing Management

#### **MKTG7033 MARKETING ANALYTICS**

This course is designed to help students understand the development of marketing data in the big data era and the value of such data in marketing decision making. Students will be introduced the broad range of marketing data available to businesses, ways to gain insights

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from the data and convert insights into profitable customer acquisition, retention and growth efforts. Important marketing data usages (e.g., customer behavior prediction, customer value evaluation, social listening, etc.) are discussed using examples from different industries. Issues of data privacy and implementation challenges in big data marketing will also be explored.

Pre-requisite: Any marketing fundamental module at UG level or above (for students of Master of Science in Business Analytics Programme) / MKTG7010 Marketing Management [for students of MBA and MSc in Data Science (Marketing Analytics) Programme]

### **MKTG7300 INTERNATIONAL MARKETING STRATEGY**

What are the roles of marketing in a dynamic global environment? What are the challenges or complexities for managing brand-marketing in the cross-cultural context? In addressing these issues, this course provides students an understanding of the development of marketing strategy in local and overseas market. It is concerned with creating an effective strategic plan through identifying marketing opportunities and assessing company capabilities. The module also endeavors to help students apply the learnt theories to practice through the critical analysis of relevant case studies.

Pre-requisite: None

### **MKTG8011 DOCTORAL SEMINAR IN MARKETING RESEARCH**

This course is designed to give students a strong foundation for critically evaluating contemporary marketing research. With its focus on students' understanding of modern theoretical and methodological approaches to various aspects of marketing research, this course enables students to conceptualize, operationalize, and develop own research ideas, which contributes to their knowledge advancement.

Pre-requisite: None

### **MKTG8012 DOCTORAL SEMINAR IN MARKETING THEORIES**

This course introduces Ph.D. students to recent topics and literature in the field of marketing. It aims to generate a discussion highlighting recent developments in marketing theories in the following areas:

- Marketing strategy
- Consumer behavior

Students are required to read and prepare written reviews on journal articles at home. They also need to share and discuss these reviews in the class. This approach enables students to appreciate marketing theories and concepts and their managerial implications. It also enables students to assess the strengths and weaknesses of various marketing investigations.

Pre-requisite: None

### **MKTG8350 INTERNATIONAL MARKETING**

This is an executive course in marketing to train students in consolidating all learnt principles and putting them into making marketing decisions relevant to the long-run performance of organizations. It will introduce students to strategic thinking and also other updated and pertinent issues in marketing strategy. Lots of cases under various scenarios will be discussed. Upon completion of the course, students should be able to recognize the key influencers of success of various marketing decisions and thereby improve their ability in making complicated marketing decisions.

Pre-requisite: None

### **MKTG8999 DOCTORAL THESIS**

The PhD thesis is the main output of a PhD. It is a concentrated piece of original research carried out by all PhD students in order to successfully earn their doctoral degree. The PhD thesis needs to contribute to the existing body of knowledge.

Pre-requisite: None

PROGRAMMES OF STUDY

## **Faculty of Education**

### **Doctoral Degree Programmes**

#### AREA OF STUDY

- Education

## Doctoral Degree Programmes

### Doctor of Philosophy

- Education

		Credits
<b>Compulsory Courses</b>		
EDUC8001	Qualitative Research Methods	3
EDUC8002	Applications of Advanced Quantitative Methods	3
EDUC8003	Research Ethics	--
EDUC8004	Research Writing	3
EDUC8005	Introduction to Educational Research	1
EDUC8008	Qualitative Research Design	2
EDUC8009	Descriptive and Inferential Statistics	3
<b>Doctoral Thesis</b>		
EDUC8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>33</b>

FACULTY OF EDUCATION

# Doctoral Degree Programmes

## Doctor of Education

	<b>Credits</b>
<b>Compulsory Courses</b>	
EDUC8100 Educational Leadership and Policy Analysis	3
EDUC8101 Organization and Leadership: From Theories to Practices	3
EDUC8102 Research Methods in Education	3
EDUC8103 Organizing for Learning	3
EDUC8104 Data and Decision	3
EDUC8105 Comparative and International Education	3
EDUC8106 Research Writing and Ethics	3
EDUC8107 Special Topics Seminar	4
EDUC8108 Practice in Action	2
EDUC8109 Independent Study	2
EDUC8199 Doctoral Thesis	18
<b>Grand Total:</b>	<b>47</b>

## Master's Degree Programmes

### Master of Philosophy

- Education with Specialization in Curriculum and Instruction

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Year I	Credits
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**Compulsory Courses:**

EDUC7050	Current Issues in Education	3
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EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
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EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
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**Required Elective Courses (1 out of 4):** 9

EDUC7101	Foundations of Curriculum and Instruction
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EDUC7102	Curriculum Design and Implementation
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EDUC7103	Evaluation of Curriculum, Instruction and Student Performance
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EDUC7151	Seminar in Subject-based Curricular Issues
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<b>Total Credits:</b>	<b>18</b>
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Year II	Credits
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EDUC7190	Thesis	12
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<b>Total Credits:</b>	<b>12</b>
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<b>Grand Total:</b>	<b>30</b>
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FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Philosophy

- Education with Specialization in Chinese Education

Year I		Credits
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDCU7184	Curriculum Design in Chinese Education	
EDUC7053	Action Research	
EDUC7103	Evaluation of Curriculum, Instruction and Student Performance	
EDUC7155	Chinese Pedagogy	
<b>Total Credits:</b>		<b>18</b>
Year II		Credits
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Philosophy

#### • Education with Specialization in English Language Education

<b>Year I</b>	<b>Credits</b>
<b>Compulsory Courses:</b>	
EDUC7050 Current Issues in Education	3
EDUC7051 Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052 Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Course (1 out of 4):</b>	9
EDUC7001 Research Methods in English Language Education	
EDUC7103 Evaluation of Curriculum, Instruction and Student Performance	
EDUC7179 Curriculum Design in English Language Education	
EDUC7183 Second Language Vocabulary Acquisition	
<b>Total Credits:</b>	<b>18</b>
<b>Year II</b>	<b>Credits</b>
EDUC7190 Thesis	12
<b>Total Credits:</b>	<b>12</b>
<b>Grand Total:</b>	<b>30</b>

FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Philosophy

- Education with Specialization in Mathematics Education

Year I		Credits
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDUC7053	Action Research	
EDUC7101	Foundations of Curriculum and Instruction	
EDUC7174	Studies on Mathematics Curriculum and Textbooks	
EDUC7176	Instructional Design and Assessment in Mathematics	
<b>Total Credits:</b>		<b>18</b>
Year II		Credits
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Philosophy

- Education with Specialization in Science Education

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Year I	Credits
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**Compulsory Courses:**

EDUC7050	Current Issues in Education	3
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EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
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EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
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**Required Elective Courses (1 out of 4):** 9

EDUC7053	Action Research
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EDUC7102	Curriculum Design and Implementation
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EDUC7163	Curriculum Design in Science Education
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EDUC7164	Science Pedagogy
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<b>Total Credits:</b>	<b>18</b>
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Year II	Credits
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EDUC7190	Thesis	12
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<b>Total Credits:</b>	<b>12</b>
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<b>Grand Total:</b>	<b>30</b>
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FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Philosophy

- Education with Specialization in Educational Technology

<b>Year I</b>		<b>Credits</b>
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDCU7851	Design of Digital Learning Environments	
EDCU7852	Mobile Learning Applications Design and Development	
EDCU7853	Digital Games and Learning in Educational Settings	
EDCU7854	Emerging Technologies for Learning and Assessment	
<b>Total Credits:</b>		<b>18</b>
<b>Year II</b>		<b>Credits</b>
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Philosophy

- Education with Specialization in Educational Administration

Year I		Credits
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDUC7201	Theories of Educational Administration	
EDUC7202	Educational Law and Policy Analysis	
EDUC7203	Education and Development	
EDUC7251	Organizational Change and Development in Schools	
<b>Total Credits:</b>		<b>18</b>
Year II		Credits
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Philosophy

- Education with Specialization in Early Childhood Education

<b>Year I</b>		<b>Credits</b>
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDUC7302	Cognition and Learning in the Early Years	
EDUC7303	Child Play Studies	
EDUC7304	Early Childhood Program Quality Evaluation	
EDUC7354	Child and Family Education	
<b>Total Credits:</b>		<b>18</b>
<b>Year II</b>		<b>Credits</b>
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Philosophy

- Education with Specialization in Educational Psychology

Year I	Credits
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**Compulsory Courses:**

EDUC7050	Current Issues in Education	3
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EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
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EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
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<b>Required Elective Courses (1 out of 4):</b>	9
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EDUC7401	Educational and Psychological Measurement
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EDUC7402	Psychology of Learning
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EDUC7403	Advanced Developmental Psychology
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EDUC7455	Supporting Students with Emotional and Behavioral Difficulties
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<b>Total Credits:</b>	<b>18</b>
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Year II	Credits
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EDUC7190	Thesis	12
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<b>Total Credits:</b>	<b>12</b>
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<b>Grand Total:</b>	<b>30</b>
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FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Philosophy

- **Education with Specialization in Physical Education and Sport Studies**

<b>Year I</b>		<b>Credits</b>
<b>Compulsory Courses:</b>		
EDUC7050	Current Issues in Education	3
EDUC7051	Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052	Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>		9
EDUC7501	Advanced Sport and Exercise Psychology	
EDUC7502	Physical Education Curriculum and Pedagogy	
EDUC7503	Advanced Exercise Physiology	
EDUC7551	Comparative Physical Education and Sport	
<b>Total Credits:</b>		<b>18</b>
<b>Year II</b>		<b>Credits</b>
EDUC7190	Thesis	12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Philosophy

- Education with Specialization in School Counseling

Year I	Credits
<b>Compulsory Courses:</b>	
EDUC7050 Current Issues in Education	3
EDUC7051 Qualitative Methods, Data Management, and Analysis in Educational Research	3
EDUC7052 Quantitative Methods, Data Management, and Analysis in Educational Research	3
<b>Required Elective Courses (1 out of 4):</b>	9
EDUC7455 Supporting Students with Emotional and Behavioral Difficulties	
EDUC7601 Theories in the Counseling Profession	
EDUC7603 Advanced School Counseling Skills	
EDUC7651 Career Counseling in School Environments	
<b>Total Credits:</b>	<b>18</b>
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Year II	Credits
EDUC7190 Thesis	12
<b>Total Credits:</b>	<b>12</b>
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<b>Grand Total:</b>	<b>30</b>

FACULTY OF EDUCATION

# Master's Degree Programmes

## Master of Arts

- Teaching English to Speakers of Other Languages (TESOL)

Year I/II		Credits
<b>Compulsory Courses:</b>		
EDUC7156	Second Language Learning & Teaching	3
EDUC7180	Pedagogical Grammar for English Language Teachers	3
EDUC7701	Teacher Development in TESOL	3
EDUC7702	Teaching Reading and Writing	3
EDUC7703	Language Testing and Assessment	3
EDUC7704	Teaching Listening and Speaking	3
EDUC7705	Language and Linguistics	3
EDUC7798	Project Report	6
<b>Required Elective Course (1 out of 9):</b>		
EDUC7001	Research Methods in English Language Education	3
EDUC7103	Evaluation of Curriculum, Instruction and Student Performance	3
EDUC7179	Curriculum Design in English Language Education	3
EDUC7183	Second Language Vocabulary Acquisition	3
EDUC7751	Understanding Second Language Acquisition	3
EDUC7752	Special Topics in TESOL	3
EDUC7753	Social Perspectives on Language Use and Bilingual Education	3
EDUC7754	Learning and Teaching of English Phonetics and Phonics	3
EDUC7755	Written and Spoken Discourse for English Language Teaching	3
<b>Grand Total:</b>		<b>30</b>

## Postgraduate Certificate/Diploma Programmes

### Postgraduate Certificate in Education

- Secondary Education

Year I	Credits
<b>Compulsory Courses:</b>	
EDUC6001 Introduction to Education	3
EDUC6002 Educational Psychology	3
EDUC6003 Teacher Ethics	1
EDUC6004 Teaching Practice	2
EDUC6011 Classroom Assessment	1.5
EDUC6012 Information Technology in Education	1.5
EDUC6101 Counseling and Guidance	3
EDUC6102 Curriculum and Pedagogy (Subject-based)	3
<b>Required Elective Courses (2 out of 4):</b>	
EDUC6501 Educational Administration	3
EDUC6502 Introduction to Special Education	3
EDUC6503 Educational Research	3
EDUC6504 Sociology of Education	3
<b>Grand Total:</b>	<b>24</b>

FACULTY OF EDUCATION

# Postgraduate Certificate/Diploma Programmes

## Postgraduate Certificate in Education

- Primary Education

Year I	Credits
<b>Compulsory Courses:</b>	
EDUC6001 Introduction to Education	3
EDUC6002 Educational Psychology	3
EDUC6003 Teacher Ethics	1
EDUC6004 Teaching Practice	2
EDUC6011 Classroom Assessment	1.5
EDUC6012 Information Technology in Education	1.5
EDUC6201 Curriculum and Pedagogy	3
EDUC6202 School Counseling and Guidance	3
<b>Required Elective Courses (2 out of 4):</b>	
EDUC6501 Educational Administration	3
EDUC6502 Introduction to Special Education	3
EDUC6503 Educational Research	3
EDUC6504 Sociology of Education	3
<b>Grand Total:</b>	<b>24</b>

## Postgraduate Certificate/Diploma Programmes

### Postgraduate Certificate in Education

#### • Pre-Primary Education

Year I		Credits
<b>Compulsory Courses:</b>		
EDUC6001	Introduction to Education	3
EDUC6002	Educational Psychology	3
EDUC6003	Teacher Ethics	1
EDUC6004	Teaching Practice	2
EDUC6301	Health and Care in Early Childhood	3
EDUC6302	Early Childhood Development	3
EDUC6303	Integrated Learning	3
<b>Required Elective Courses (Choose 6 credits from the following required elective courses):</b>		
EDUC6501	Educational Administration	3
EDUC6502	Introduction to Special Education	3
EDUC6503	Educational Research	3
EDUC6504	Sociology of Education	3
EDUC6505	Educational Technology in Early Childhood Settings	3
EDUC6506	Assessing Young Children	3
EDUC6507	Parental Education and Involvement	3
EDUC6508	Guidance and Counseling in Early Childhood	1.5
EDUC6509	Inclusive Education	1.5
<b>Grand Total:</b>		<b>24</b>

FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Chinese

Year I		Credits
CHLL1003	Contemporary Chinese Literature	3
CHLL1004	Modern Chinese Literature	3
EDUC1000	Introduction to Education	3
EDUC1004	Modern Chinese Language and its Teaching	3
EDUC1005	Teaching and Learning of the Ancient and Modern Chinese Characters	3
EDUC1047	Theories of Curriculum & Instruction	3
Community and Peer Education Courses		2
Languages and Skills Courses		12
2 General Education Courses		6
<b>Total Credits:</b>		<b>38</b>

Year II		Credits
CHLL2001	Classical Chinese Literature: Pre-Qin to Tang and Five Dynasties	3
CHLL2003	Classical Chinese Literature: Song to Qing Dynasties	3
EDUC2001	Sociology of Education	3
EDUC2003	Educational Psychology	3
EDUC2007	Teaching and Learning of the Grammar and Rhetoric of Literary Chinese	3
Community and Peer Education Course		1
Languages and Skills Course		3
4 General Education Courses		12
<b>Total Credits:</b>		<b>31</b>

<b>Year III</b>		<b>Credits</b>
EDUC3000	Integrating IT into Teaching and Learning	3
EDUC3003	Introduction to Special Education	3
EDUC3006	Teacher Ethics and Teacher Professional Development	3
EDUC3010	History of Chinese Thoughts and Education	3
EDUC3063	Teaching Chinese Reading and Writing	3
EDUC3064	Assessment and Evaluation in Chinese Education	3
EDUC3065	Secondary School Classroom Management (Chinese Education)	3
2 General Education Courses		6
1 Free Elective Course		3
<b>Total Credits:</b>		<b>30</b>

  

<b>Year IV</b>		<b>Credits</b>
EDUC4000	School Counselling and Guidance	3
EDUC4001	Supervised Teaching and School Experience	6
EDUC4007	Analects of Confucius and the Works of Mencius	3
EDUC4024	Educational Research Methods	3
2 Free Elective Courses		6
<b>Total Credits:</b>		<b>21</b>

  

<b>Grand Total:</b>		<b>Credits</b> <b>120</b>
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#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC1008	Education and Society in Macao
EDUC1011	Western Classical Music History
EDUC1012	Industry of Sport, Leisure and Recreation - An Introduction
EDUC2000	Moral Education
EDUC2002	Educational Assessment
EDUC2004	Modern Chinese Writing and its Teaching
EDUC2014	Psychology of Adolescents
EDUC3001	Educational Administration
EDUC3002	Educational Research
EDUC4006	Teaching of Organization of Writing in Secondary School
EDUC4009	Chinese Literary Criticism and its Teaching

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.



FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- English

<b>Year I</b>		<b>Credits</b>
EDUC1000	Introduction to Education	3
EDUC1023	Introduction to Applied English Studies	3
EDUC1024	Introduction to English Language Teaching	3
EDUC1047	Theories of Curriculum & Instruction	3
Community and Peer Education Courses		2
Languages and Skills Courses		12
4 General Education Courses		12
<b>Total Credits:</b>		<b>38</b>

<b>Year II</b>		<b>Credits</b>
EDUC1006	Language Learning Theories and English Language Teaching	3
EDUC2001	Sociology of Education	3
EDUC2003	Educational Psychology	3
EDUC2018	Subject-based Teaching Methods I (English)	3
EDUC2019	Subject-based Teaching Methods II (English)	3
Community and Peer Education Course		1
Languages and Skills Courses		3
4 General Education Courses		12
1 Free Elective Course		3
<b>Total Credits:</b>		<b>34</b>

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<b>Year III</b>	<b>Credits</b>
EDUC2022 Teaching Reading and Writing	3
EDUC2023 Teaching Listening and Speaking	3
EDUC3000 Integrating IT into Teaching & Learning	3
EDUC3003 Introduction to Special Education	3
EDUC3006 Teacher Ethics and Teacher Professional Development	3
EDUC3018 Socio-Cultural Aspects of English Language Teaching	3
EDUC3019 Creative Ideas in the English Language Classroom	3

3 Free Elective Courses	9
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<b>Total Credits:</b>	<b>30</b>
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<b>Year IV</b>	<b>Credits</b>
EDUC4000 School Counselling and Guidance	3
EDUC4002 Supervised Teaching and School Experience	6
EDUC4011 Practical Classroom English	3

2 Free Elective Courses	6
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<b>Total Credits:</b>	<b>18</b>
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<b>Grand Total:</b>	<b>Credits 120</b>
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#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC1008	Education and Society in Macao
EDUC2000	Moral Education
EDUC2002	Educational Assessment
EDUC2014	Psychology of Adolescents
EDUC2020	Focused English Skills for ELT Teachers: Speaking
EDUC3001	Educational Administration
EDUC3002	Educational Research

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

## FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Mathematics**

<b>Year I</b>		<b>Credits</b>
EDUC1000	Introduction to Education	3
EDUC1022	Theories of Curriculum and Instruction (Secondary Mathematics)	3
MATH1001	Linear Algebra I	3
MATH1002	Linear Algebra II	3
MATH1003	Intermediate Calculus	3
MATH1004	Geometry	3
Community & Peer Education Courses		2
Languages & Skills Courses		12
1 General Education Course		
GEST1004	Quantitative Reasoning for Science and Technology	3
1 Free Elective Course		3
<b>Total Credits:</b>		<b>38</b>

<b>Year II</b>		<b>Credits</b>
ECEN1008	Physics I	3
EDUC2001	Sociology of Education	3
EDUC2003	Educational Psychology	3
EDUC2049	Subject Based Teaching Methods (Secondary Mathematics) I	3
EDUC2050	Elementary Mathematics Teaching & Research	3
MATH2002	Multivariable Calculus	3
MATH2003	Mathematical Analysis I	3
MATH2004	Mathematical Analysis II	3
MATH2005	Probability	3
MATH2006	Applied Statistics	3
Community & Peer Education Course		1
Languages & Skills Courses		3
2 General Education Courses		6
<b>Total Credits:</b>		<b>40</b>

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<b>Year III</b>	<b>Credits</b>
EDUC3003 Introduction to Special Education	3
EDUC3006 Teacher Ethics and Teacher Professional Development	3
EDUC3050 Subject Based Teaching Methods (Secondary Mathematics) II	3
EDUC3051 Learning Technology for Secondary Mathematics Teaching	3
MATH3000 Ordinary Differential Equations	3
MATH3001 Complex Analysis	3
MATH3003 Abstract Algebra	3
5 General Education Courses	15
1 Free Elective Course	3
<b>Total Credits:</b>	<b>39</b>

<b>Year IV</b>	<b>Credits</b>
EDUC4000 School Counselling and Guidance	3
EDUC4023 Supervised Teaching and School Experience	6
MATH4000 Elementary Number Theory	3
1 Free Elective Course	3
<b>Total Credits:</b>	<b>15</b>

<b>Grand Total:</b>	<b>Credits</b> <b>132</b>
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#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC2002	Educational Assessment
EDUC3001	Educational Administration
EDUC3002	Educational Research
MATH3004	Partial Differential Equations
MATH3007	History of Mathematics
MATH3013	Mathematical Modeling

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Integrated Science with Specialization in Biology

Year I		Credits
APAC1000	Advanced Mathematics I	3
APAC1001	College Physics	3
APAC1002	Electromagnetism and Physical Optics	3
APAC1003	Introduction to College Chemistry	3
APAC2000	Advanced Mathematics II	3
EDUC1000	Introduction to Education	3
HSCI1002	Introduction to Biological Sciences	3
Community & Peer Education Courses		2
Languages & Skills Courses		9
1 General Education Course		3
1 Required Elective Course:		
HSCI1003	General and Clinical Biochemistry	3
<b>Total Credits:</b>		<b>38</b>

Year II		Credits
APAC2001	Analytical and Environmental Chemistry	3
APAC2003	Inorganic Chemistry	3
APAC2005	Earth and Universe	3
EDUC2001	Sociology of Education	3
EDUC2003	Educational Psychology	3
EDUC3056	Science Education in Secondary Schools	3
EDUC3057	Scientific Inquiry and Practical Work in Secondary Schools	3
HSCI2002	General and Clinical Microbiology	3
HSCI2004	Genetics and Epigenetics	3
Community & Peer Education Course		1
Languages & Skills Courses		6
1 General Education Course		3
2 Required Elective Courses:		
HSCI2000	Cell and Molecular Biology	3
1 Required Elective Course		3
<b>Total Credits:</b>		<b>43</b>

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<b>Year III</b>		<b>Credits</b>
EDUC3003	Introduction to Special Education	3
EDUC3006	Teacher Ethics and Teacher Professional Development	3
EDUC3013	Assessment in Science Education	3
EDUC3059	Emerging Pedagogies of STEM Teaching	3
6 General Education Courses		18
3 Free Elective Courses		9
<b>Total Credits:</b>		<b>39</b>

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<b>Year IV</b>		<b>Credits</b>
EDUC4000	School Counselling and Guidance	3
EDUC4022	Supervised Teaching and School Experience	6
<b>Total Credits:</b>		<b>9</b>

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		<b>Credits</b>
<b>Grand Total:</b>		<b>129</b>

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#### **Required Elective Courses**

HSC11003	General and Clinical Biochemistry
HSC12000	Cell and Molecular Biology
HSC12005	Biology of Development and Aging
HSC12006	Physiology and Pathophysiology

#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC2002	Educational Assessment
EDUC3001	Educational Administration
EDUC3002	Educational Research

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

## FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Integrated Science with Specialization in Chemistry

Year I	Credits
APAC1000 Advanced Mathematics I	3
APAC1001 College Physics	3
APAC1002 Electromagnetism and Physical Optics	3
APAC1003 Introduction to College Chemistry	3
APAC2000 Advanced Mathematics II	3
EDUC1000 Introduction to Education	3
HSCI1002 Introduction to Biological Sciences	3
Community & Peer Education Courses	2
Languages & Skills Courses	9
1 General Education Course	3
1 Free Elective Course	3
<b>Total Credits:</b>	<b>38</b>

Year II	Credits
APAC2001 Analytical and Environmental Chemistry	3
APAC2003 Inorganic Chemistry	3
APAC2005 Earth and Universe	3
EDUC2001 Sociology of Education	3
EDUC2003 Educational Psychology	3
EDUC3056 Science Education in Secondary Schools	3
EDUC3057 Scientific Inquiry and Practical Work in Secondary Schools	3
HSCI2002 General and Clinical Microbiology	3
HSCI2004 Genetics and Epigenetics	3
Community & Peer Education Course	1
Languages & Skills Courses	6
1 General Education Course	3
1 Free Elective Course	3
<b>Total Credits:</b>	<b>40</b>

<b>Year III</b>		<b>Credits</b>
EDUC3003	Introduction to Special Education	3
EDUC3006	Teacher Ethics and Teacher Professional Development	3
EDUC3013	Assessment in Science Education	3
EDUC3059	Emerging Pedagogies of STEM Teaching	3
6 General Education Courses		18
3 Required Elective Courses		9
1 Free Elective Course		3
<b>Total Credits:</b>		<b>42</b>
<b>Year IV</b>		<b>Credits</b>
EDUC4000	School Counselling and Guidance	3
EDUC4022	Supervised Teaching and School Experience	6
<b>Total Credits:</b>		<b>9</b>
<b>Grand Total:</b>		<b>129</b>

#### **Required Elective Courses**

APAC2006	Organic Chemistry: Foundations of Chemical Reactivity and Synthesis
APAC3000	Materials Physics and Chemistry
APAC3005	Physical Chemistry
APAC3008	Nanochemistry
APAC3009	Polymer Chemistry

#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC2002	Educational Assessment
EDUC3001	Educational Administration
EDUC3002	Educational Research

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.



## FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Integrated Science with Specialization in Physics

Year I	Credits
APAC1000 Advanced Mathematics I	3
APAC1001 College Physics	3
APAC1002 Electromagnetism and Physical Optics	3
APAC1003 Introduction to College Chemistry	3
APAC2000 Advanced Mathematics II	3
EDUC1000 Introduction to Education	3
HSCI1002 Introduction to Biological Sciences	3
Community & Peer Education Courses	2
Languages & Skills Courses	9
1 General Education Course	3
1 Free Elective Course	3
<b>Total Credits:</b>	<b>38</b>

Year II	Credits
APAC2001 Analytical and Environmental Chemistry	3
APAC2003 Inorganic Chemistry	3
APAC2005 Earth and Universe	3
EDUC2001 Sociology of Education	3
EDUC2003 Educational Psychology	3
EDUC3056 Science Education in Secondary Schools	3
EDUC3057 Scientific Inquiry and Practical Work in Secondary Schools	3
HSCI2002 General and Clinical Microbiology	3
HSCI2004 Genetics and Epigenetics	3
Community & Peer Education Course	1
Languages & Skills Courses	6
1 General Education Course	3
1 Required Elective Course	3
1 Free Elective Course	3
<b>Total Credits:</b>	<b>43</b>

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<b>Year III</b>	<b>Credits</b>
EDUC3003    Introduction to Special Education	3
EDUC3006    Teacher Ethics and Teacher Professional Development	3
EDUC3013    Assessment in Science Education	3
EDUC3059    Emerging Pedagogies of STEM Teaching	3
6 General Education Courses	18
2 Required Elective Courses	6
1 Free Elective Course	3
<b>Total Credits:</b>	<b>39</b>

<b>Year IV</b>	<b>Credits</b>
EDUC4000    School Counselling and Guidance	3
EDUC4022    Supervised Teaching and School Experience	6
<b>Total Credits:</b>	<b>9</b>

<b>Grand Total:</b>	<b>Credits</b> <b>129</b>
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#### **Required Elective Courses**

APAC2004	Quantum Physics
APAC3001	Solid State Physics
APAC3002	Thermodynamic and Statistical Physics
APAC3007	Low-Dimensional Physics

#### **Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC2002	Educational Assessment
EDUC3001	Educational Administration
EDUC3002	Educational Research

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

- Pre-Primary Education

<b>Year I</b>		<b>Credits</b>
EDUC1000	Introduction to Education	3
EDUC1013	Early Childhood Development	3
EDUC1054	Musicianship I	3
EDUC1060	Visual Art I: Exploration and Discovery	3
EDUC2003	Educational Psychology	3
EDUC3023	Educational Technology in Early Childhood Education	3
Community & Peer Education Courses		2
Languages & Skills Courses		12
3 General Education Courses		9
<b>Total Credits:</b>		<b>41</b>

<b>Year II</b>		<b>Credits</b>
EDUC2001	Sociology of Education	3
EDUC2025	Teaching Fundamental Movement Skills for Young Children	2
EDUC2026	Teaching of Chinese in Kindergarten	3
EDUC2027	Young Children's Mathematical Activities	3
EDUC2032	Movement Programme for Young Children	2
EDUC2064	Teaching of Music I	1.5
EDUC2067	Teaching of Visual Art	1.5
EDUC3021	Health and Care for Young Children	3
Community & Peer Education Course		1
Languages & Skills Courses		3
5 General Education Courses		15
<b>Total Credits:</b>		<b>38</b>

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<b>Year III</b>	<b>Credits</b>
EDUC3004 Introduction to Special Education	3
EDUC3006 Teacher Ethics and Teacher Professional Development	3
EDUC3020 Social and Cultural Activities	3
EDUC3024 Curriculum and Instruction in Early Childhood Education	3
EDUC3025 English Language Learning in Early Childhood	1.5
EDUC3026 Guidance in Early Childhood	3
EDUC3027 Assessing Young Children	3
EDUC3028 Integrated General Studies and Scientific Activities	3
EDUC3029 Children's Language and Literature	1.5

3 Free Elective Courses	9
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<b>Total Credits:</b>	<b>33</b>
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<b>Year IV</b>	<b>Credits</b>
EDUC4003 Supervised Teaching and School Experience	6
1 Free Elective Course	3

<b>Total Credits:</b>	<b>9</b>
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<b>Grand Total:</b>	<b>Credits 121</b>
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**Free Electives \***

EDUC1001	Philosophy of Education
EDUC2028	Integrated Creative Activities
EDUC2029	Playing and Learning
EDUC2030	Parental Education and Involvement
EDUC2066	Visual Art II: Theory and Practice
EDUC3002	Educational Research
EDUC3031	Educational Evaluation
EDUC3033	Education Planning and Creation of Learning Environment
EDUC3036	Assessment and Improvement of Effective Teacher-child Interactions in Early Years Education 0-8

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

## FACULTY OF EDUCATION

# Bachelor's Degree Programmes

## Bachelor of Education

### • Primary Education

<b>Year I</b>		<b>Credits</b>
EDUC1000	Introduction to Education	3
EDUC1047	Theories of Curriculum & Instruction	3
Community & Peer Education Courses		2
Languages & Skills Courses		12
4 General Education Courses		12
Required Elective Course (1 out of 3):		3
EDUC1015	Physical Education I – Games Learning and Fundamental Movement Exercises for Children	
EDUC1054	Musicianship I	
EDUC1060	Visual Art I: Exploration and Discovery	
1 Free Elective Course		3
<b>Total Credits:</b>		<b>38</b>

<b>Year II</b>		<b>Credits</b>
EDUC2001	Sociology of Education	3
EDUC2003	Educational Psychology	3
EDUC2033	Primary Mathematics Teaching Skills and Principles	3
EDUC2034	The Development of Mathematics Interest, Concepts, and Key Ideas for Primary Mathematics	3
EDUC2035	Child Development	3
Community & Peer Education Course		1
Languages & Skills Courses		3
2 General Education Courses		6
Required Elective Course (1 out of 3):		3
EDUC2036	Physical Education II – Sport Education and Exercises Habit Development for Young Adolescent	
EDUC2063	Musicianship II	
EDUC2066	Visual Art II: Theory and Practice	
Required Elective Course (1 out of 2):		3
EDUC2041	English Grammar	
EDUC2044	Guided Chinese Reading and Writing	

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Required Elective Course (1 out of 2):	3
EDUC2042     English Phonology	
EDUC2047     Guided Reading and Teaching of Chinese Prose and Poet	

2 Free Elective Courses	6
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<b>Total Credits:</b>	<b>40</b>
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<b>Year III</b>	<b>Credits</b>
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EDUC3000	Integrating IT into Teaching and Learning	3
EDUC3004	Introduction to Special Education	3
EDUC3037	Curriculum and Instruction of Primary Mathematics	3
EDUC3039	Teaching of Social Studies in Primary Schools	3
EDUC3044	Classroom Management	3
EDUC3049	Teaching of Science and Technology	3
EDUC3062	Educational Probation (Internship)	1

2 General Education Courses	6
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Required Elective Course (1 out of 2):	3
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EDUC3040	Chinese Curriculum and Course Materials in Primary Education
EDUC3047	Teaching of English in Primary Schools I

Required Elective Course (1 out of 2):	3
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EDUC3038	Teaching of Chinese in Primary Schools
EDUC3048	Teaching of English in Primary Schools II

3 Free Elective Courses	9
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<b>Total Credits:</b>	<b>40</b>
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<b>Year IV</b>	<b>Credits</b>
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EDUC3006	Teacher Ethics and Teacher Professional Development	3
EDUC4000	School Counselling and Guidance	3
EDUC4004	Supervised Teaching and School Experience	6

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<b>Total Credits:</b>	<b>12</b>
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<b>Grand Total:</b>	<b>Credits</b> <b>130</b>
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**Free Elective Courses \***

EDUC1001	Philosophy of Education
EDUC1016	Appreciation and Teaching of Children's Literature
EDUC1017	Thinking and Learning with IT
EDUC1018	Teaching of Traditional Chinese Culture
EDUC1019	Teaching and Learning National Education
EDUC1020	Ways of Seeing: Drawing as Inquiry
EDUC2000	Moral Education
EDUC2037	Integrated Activity Teaching and Design For Primary Education
EDUC2038	Elementary Mathematics Teaching & Research
EDUC2046	Teaching of Music: Elementary General Music Methods
EDUC3001	Educational Administration
EDUC3002	Educational Research
EDUC3043	Teaching of Visual Art

\* For free electives, students have the option to choose any courses from any bachelor's programme at UM. In FED, besides courses from different bachelor's programmes, the above electives are provided for students' consideration.

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## Course Description

### **APAC1000    ADVANCED MATHEMATICS I**

The course aims at providing mathematical concepts and methods to students in the study of classical mechanics, electromagnetism, quantum mechanics as well as statistical mechanics. The topics will cover linear algebra, vector calculus, special functions, complex numbers and hyperbolic functions.

Pre-requisite: None

### **APAC1001    COLLEGE PHYSICS**

In this part, mechanics included rotation, gravitation, elasticity, oscillation, waves, sound waves, fluid, gas theory and laws of thermodynamics will be introduced.

Pre-requisite: None

### **APAC1002    ELECTROMAGNETISM AND PHYSICAL OPTICS**

In this part, Electromagnetism will be introduced in terms of forces, fields, potential, laws, current, circuits, induction, circuit components, electromagnetic waves, light, geometric optics, interference and diffraction.

Pre-requisite: None

### **APAC1003    INTRODUCTION TO COLLEGE CHEMISTRY**

This course addresses the basic concepts of chemistry through lectures and laboratory experiments. Topics include: atoms and molecules, periodic table, electronic structure, chemical bonding, chemical reactions, electrochemistry, and organic chemistry.

Pre-requisite: None

### **APAC2000    ADVANCED MATHEMATICS II**

The course is the extension of Advanced Mathematics I. The course aims at providing mathematical concepts and methods to students in the study of classical mechanics, electromagnetism, quantum mechanics as well as statistical mechanics. The topics will cover infinite series, Fourier series and transformation, ordinary differential equations, probability.

Pre-requisite: APAC1000

### **APAC2001    ANALYTICAL AND ENVIRONMENTAL CHEMISTRY**

Introduction of analytical chemistry, including the concept of analytical chemistry, sample preparation, analysis methods, quality control, as well as analytic techniques for environmental science. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003

### **APAC2003    INORGANIC CHEMISTRY**

Introduction of inorganic chemistry, including general principles of chemistry, periodic properties of elements, acid-base theory, structure of compounds, s, p, d-block elements, etc. Some related experiments will be included.

Pre-requisite: APAC1003

### **APAC2004    QUANTUM PHYSICS**

Introduction to quantum mechanics. It may cover the following topics: Wavefunction and Schrodinger equation, observables, eigenfunctions, One-dimensional steady state problem, Mechanical quantities expressed by operators and representation transformation, The evolution of mechanical quantities over time and symmetry, The Schrodinger equation in spherical coordinates, Spin and orbital angular momentum, Quantum transitions, The hydrogen atom and the addition of angular momenta.

Pre-requisite: APAC2000



### **APAC2005 EARTH AND UNIVERSE**

This course emphasizes the understanding of the fundamental concepts and basic knowledge of Earth and Universe. The main contents include the scale of Earth and Universe, the constellations, the progression of the seasons, the rotation of the Earth, the Moon, lunar & solar eclipse, the roots of science and astronomy, the concepts of different movements, the gravity, Doppler effect of light, the birth and death of stars, the black holes, big band theory, etc.

Pre-requisite: None

### **APAC2006 ORGANIC CHEMISTRY: FOUNDATIONS OF CHEMICAL REACTIVITY AND SYNTHESIS**

Introduction of the structures, properties, preparation, and reactions of a vast array of molecules that we call organic compounds. Introduction of concepts that structure determine properties leading to exploration of the subject in a systematic manner through understanding of classes and functionalities and reaction mechanism. Materials learnt in earlier chapter will serve as building blocks for the topics in the later chapter. Stereo- and regio-controlled chemical reaction types are introduced.

Pre-requisite: APAC1003

### **APAC3000 MATERIALS PHYSICS AND CHEMISTRY**

The course will introduce the general synthesis methodologies in material science based on Physics and Chemistry principles. Exploration and applications of novel and functional materials, especially in modern technology, will also be covered in the course.

Pre-requisite: None

### **APAC3001 SOLID STATE PHYSICS**

In this course, the behavior of atoms and shared electrons in solids will be described by classical physics and quantum mechanics. The discussion of solid with crystalline structure will be one of the emphases. Some properties of crystal such as defects, disorder and thermal vibration will be studied. Then, band theory and motion of electron will be investigated.

Pre-requisite: None

### **APAC3002 THERMODYNAMIC AND STATISTICAL PHYSICS**

This course introduces the foundations of statistical mechanics to students with a strong mathematics and physics background, who are contemplating a major in Physics or interested in a rigorous treatment of physics. The main contents include the zeroth, first, second and third laws, thermodynamical potentials and Legendre transformation, phase coexistence and phase transition, thermodynamical stability, statistical distribution of almost independent systems, and others.

Pre-requisite: None

### **APAC3005 PHYSICAL CHEMISTRY**

This course provides a theoretical and mathematical description of the physical behavior of chemical systems. Introduce and interpret observations on the physical and chemical properties of matter. Physical chemistry is also essential for developing and interpreting the modern techniques used to determine the structure and properties of matter, such as new synthetic materials. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003 or HSC11000

### **APAC3007 LOW-DIMENSIONAL PHYSICS**

The course aims at an introduction to basic principles of nanophysics allowing working in research and development in nanotechnology. Students will learn basic principle of physics of nanometer-size systems with a focus on basic physical phenomena.

Pre-requisite: None

### **APAC3008 NANO CHEMISTRY**

Introduction of nanomaterials and nanochemistry, including the concept of nanoscale, the band

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structure and the corresponding characters of nanomaterials, the fabrication, modification and application of nanosystem.

Pre-requisite: None

### **APAC3009 POLYMER CHEMISTRY**

Introduction of various classes of polymer compounds, emphasizing polymer chemical reactions and mechanisms of major functionalities and their importance in the area of chemistry. Topics covered include: structure and properties of polymer; condensation polymerization; free radical polymerization; copolymerization; polymerization methods; crystallization and crosslinking of polymer chains; characterization and application of polymer compounds. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003

### **CHLL1003 中國當代文學 CONTEMPORARY CHINESE LITERATURE**

本課程主要探討二十世紀下半葉以來中國文學之歷史發展的規律與成就，並旁及其與古典文學、外國文學和現代文學之關係。課程的重點內容是對當代文學重要作家的代表作品進行歷史和美學的解讀，並對朦朧詩派、先鋒派等重要文學思潮和流派，對山藥蛋派、探求者、他們詩社等重要文學社團，將結合作品進行重點介紹，且以互動式、啟發式教育，激發同學的獨立思考與課堂討論，從而達到化課堂所學為自身學識的教學目的。

先修科目：沒有

### **CHLL1004 中國現代文學 MODERN CHINESE LITERATURE**

本課程主要探討二十世紀上半葉中國文學之歷史發展的規律與成就，並旁及其與古典文學、外國文學之關係。課程的重點內容是對現代文學重要作家的代表作品進行歷史和美學的解讀，並對新人文主義、新感覺派、九葉詩派等重要文學思潮和流派，對文學研究會、創造社、新月社等重要文學社團，將結合作品進行重點介紹，且以互動式、啟發式教育，激發同學的獨立思考與課堂討論，從而達到化課堂所學為自身學識的教學目的。

先修科目：沒有

### **CHLL2001 中國古典文學：先秦至唐五代**

#### **CLASSICAL CHINESE LITERATURE: PRE-QIN TO TANG AND FIVE DYNASTIES**

本課程引導學生閱讀、分析、闡釋先秦至唐五代的古典文學代表作品，通過討論、報告、撰寫論文等方式，啟發學生探討古典文學發展的重要時期和階段，各類文體風格，主要作家和流派，文學發展與政治、宗教、思想、文化的關係等。本課程旨在使學生瞭解中國古典文學的特質和發展歷程，並培養其獨立欣賞、分析、批評古典文學作品的能力。

先修科目：沒有

### **CHLL2003 中國古典文學：宋代至清代**

#### **CLASSICAL CHINESE LITERATURE: SONG TO QING DYNASTIES**

本課程引導學生閱讀、分析、闡釋宋代至清代的古典文學代表作品，通過討論、報告、撰寫論文等方式，啟發學生探討古典文學發展的重要時期和階段，各類文體風格，主要作家和流派，文學發展與政治、宗教、思想、文化的關係等。本課程旨在使學生瞭解中國古典文學的特質和發展歷程，並培養其獨立欣賞、分析、批評古典文學作品的能力。

先修科目：CHLL2001

### **CPED1001/CPED1002 PHYSICAL EDUCATION I/ PHYSICAL EDUCATION II**

Physical Education consists of theory of fitness (Part I) and basic sport concepts, knowledge and skill practice in team sport and individual sport (Part II). Part I covers sport relevant concepts including the function of sports in life, sports injury prevention & treatment and sport knowledge. Students will learn theory, principle and regulation in fitness and know how to do exercise and workout regularly. Part II focuses on skill-based physical fitness which includes one team sport and one individual sport. Students will be guided to apply the concept of fitness,

sport theory and game strategy with skill when they learn sports for participating in sport and sport practice continuously.

Pre-requisite: None

### **ECEN1008 PHYSICS I**

This is a general physics course for engineering students. Firstly, kinematics will be introduced including straight line and plane motion. Then, the causes of motion will be elucidated and summarize into laws of force. Concepts of energy and work will be discussed with conservation law. Draw an analogy between translational and rotational motion. Laws of thermodynamics will also be studied.

Pre-requisite: None

### **EDUC1000 INTRODUCTION TO EDUCATION**

This course aims to help students understand the general law of the human education system. From historical, theoretical and practical perspectives, the course explores (1) the fundamentals of education, (2) the relationship between education and social, political, economic and cultural developments, (3) the relationship between education and human physical and mental developments, (4) education purposes (teleology), and (5) the relationship between teachers and learners. It also discusses issues about education systems/structure, curriculum and instruction, moral education, educational management, etc.

Pre-requisite: None

### **EDUC1001 PHILOSOPHY OF EDUCATION**

This course is designed to show the important influence of educational philosophy on different philosophical theories. All educators and educational investigators should be equipped with a knowledge base of Western and Chinese educational philosophies in order to seek a correct educational orientation. The course will cover topics such as the definition of philosophy and education, their relationships and their basic problems, with a systematic analysis, comparison and evaluation of various schools of educational philosophies, studying their advantages and disadvantages and their influences on teaching. Other topics include analysis of educational concepts, critique of educational philosophies, examination of classical educational doctrines, evaluation of modern educational problems and reflection on one's educational beliefs and aspirations.

Pre-requisite: None

### **EDUC1004 現代語文與教育 MODERN CHINESE LANGUAGE AND ITS TEACHING**

本科旨在切合澳門現行中學語文教學的內容和要求。教學內容以中學課程教學需要為導向，即字、詞、句的講解，及語法和修辭的分析。內容除通論現代漢語的基本知識外，並簡述邏輯與語文的關係，培養學生的語文思維能力，藉以提高學生在語文教學方面的能力。

先修科目：沒有

### **EDUC1005 古今漢字的教與學**

#### **TEACHING AND LEARNING OF THE ANCIENT AND MODERN CHINESE CHARACTERS**

漢字是漢語的基本單位，是形音義結合的符號體系，故本科將從歷史發展的角度，考察漢字字形、字音、字義的變遷，講授漢字的性質、特點和結構，以及漢字簡化等問題，以增進學生對漢字的理解。又文言以一字一詞為主，故本科亦將講授文言詞彙的基本知識，以配合中學古詩文教學的需要。

先修科目：沒有

### **EDUC1006 LANGUAGE LEARNING THEORIES AND ENGLISH LANGUAGE TEACHING**

This course provides an overview of the concepts, theories, and research in language acquisition with an emphasis on second language acquisition. Special attention is paid to the linking of theories with current practices in English language teaching.

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Pre-requisite: EDUC1023 and EDUC1024

### **EDUC1008 EDUCATION AND SOCIETY IN MACAO**

This course is designed to help students to reflect on the social and education systems of Macao since the foundation of New China in 1949. By applying sociological and political concepts and theories, the course will analyse the discourses and development experiences of Macao. The course materials will be based on the accumulated research findings and publications related to the said period. It is intended to assist students in having a broader and more penetrating understanding of Macao society and its educational system.

Pre-requisite: None

### **EDUC1011 WESTERN CLASSICAL MUSIC HISTORY**

This course aims at providing an advanced discussion of the styles, characteristics and historical development of the different eras from the 8<sup>th</sup> century to the 19<sup>th</sup> century in western classical music history. The focus of the course is on the aesthetic analysis of music literature, famous composers' masterworks and different compositional styles. Understanding the development of notation will provide students with a better idea of how musical concepts have influenced the development of characteristics identified in each era in history. By the close of the semester, students will have a solid understanding of the development of western classical music.

Pre-requisite: None

### **EDUC1012 INDUSTRY OF SPORT, LEISURE AND RECREATION - AN INTRODUCTION**

Sports and its related development in leisure and recreation attract attention due to its intrinsic connection to personal growth, health improvement and social development. Bidding of mega sport events, building of sport tourism, planting of jogging and bicycle tracks in city, promotion of health related sport projects in community and planning of sport and recreational centres are examples of the contemporary development of sports. This course aims at bringing students basic understandings of sport, leisure and recreation as an industry, with an emphasis on the following strands: structure and organisation; activity types and international development; economic prospects, demand and supply, management, sport market and services; social change and customer behaviour; national, city and community planning; and careers and job nature in the industry of sport, leisure and recreation. The related theories, elements of developmental background and trends are the basic content of the study.

Pre-requisite: None

### **EDUC1013 EARLY CHILDHOOD DEVELOPMENT**

This course will instill into teachers, who work with 0 to 8-year-old children, a thorough understanding of the developmental changes at this stage of life, the roles that genetics play in human development, as well as some common childhood disorders. Different theories of child development will be introduced to provide students with an all-rounded knowledge of children's united growth, which should lay the foundation for effective teaching and learning in early childhood education.

Pre-requisite: None

### **EDUC1015 PHYSICAL EDUCATION I - GAMES LEARNING AND FOUNDAMENTAL MOVEMENT EXERCISES FOR CHILDREN**

The teaching of physical education contains the study of track and field, gymnastics, ball games, dancing and swimming. Nevertheless, students at the age of 6 to 9 are too young to understand the sport rules, use of equipment and its competitive nature. For this purpose, the teaching of fundamental movement exercises and use of games approach become prevailed practice in helping young children to develop necessary movement skills. The main feature of this course is to help pre-service teachers or children workers to understand the principles of fundamental movement exercises and games teaching in children at junior primary age.

Pre-requisite: None

### **EDUC1016 APPRECIATION AND TEACHING OF CHILDREN'S LITERATURE**

The purpose of this course is to discuss various forms of children literature such as fairy tales, stories and fables, and the connections between children literature and literature education. Students will learn how to write different forms of children literature and improve their writing skills. At the same time, student teachers will learn how to evaluate the qualities of literatures and become prepared to teach children literary appreciation or engage in creating children literature.

Pre-requisite: None

### **EDUC1017 THINKING AND LEARNING WITH IT**

This course aims to help teacher trainees to create a classroom community in which learning dialogues take place through computers or other associated resources. To achieve this goal, teacher trainees are first expected to review critically the role of computers in enhancing thinking skills and facilitating students' learning. Evidence from a decade of research is drawn to show how children are engaged in talking and thinking together with computers.

Pre-requisite: None

### **EDUC1018 傳統文化與教學 TEACHING OF TRADITIONAL CHINESE CULTURE**

中國是一個幅員遼闊、歷史悠久、文化發達的國家。傳統文化內容豐富，並充分融合於思想、風俗、生活習慣、思維模式各個領域之中。本課程旨在協助學員透徹了解中華傳統文化的特質與內容，目的在提升在語文課堂中涉及與傳統文化相關的眾多方面的知識時，學員能達致高水準的教學效果。

先修科目: 沒有

### **EDUC1019 國情教育的教與學 TEACHING AND LEARNING NATIONAL EDUCATION**

本課程分兩部分，理論與實踐並重。一方面重點介紹現代中國歷史及社會概況，包括新中國成立經過，現今政治、社會、經濟情形，澳門特區基本法等；另方面通過一些課程設計的例子，說明如何把有關材料運用在社會科教育上。

先修科目: 沒有

### **EDUC1020 WAYS OF SEEING: DRAWING AS INQUIRY**

Through diverse drawing workshops both in-doors and out-doors, this course introduces students to the various modes and approaches of drawing, from the traditional techniques to some experimental practices. While getting acquainted with different material approaches in drawing, the students will also explore drawing as ways of seeing, building conceptual thinking and visual mapping.

Pre-requisite: None

### **EDUC1022 THEORIES OF CURRICULUM AND INSTRUCTION (SECONDARY MATHEMATICS)**

This course seeks to elucidate evolution of mathematics education in the 20th century and for the 21st century. Past influential mathematics education reforms affecting mathematics curriculum and instruction are highlighted. Course participants are expected to be conversant with basic theories and principles of mathematics education, and in particular understand the salient characteristics of Chinese learners. They are familiarized with the course rationale, course objectives, content standards, as well as teaching and evaluation recommendations in accordance with contemporary mathematics curriculum standards. Commonly used mathematics textbooks and resources used in Macao's secondary classrooms are also exemplified.

Pre-requisite: EDUC1000 and MATH1001

### **EDUC1023 INTRODUCTION TO APPLIED ENGLISH STUDIES**

This course provides an overview of the field of English language studies with practical implications for language teaching and learning. The course starts with the history of English and its evolution, and then discusses the function and use of English for communicative

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purposes in diverse social settings. The socio-political dimension of English is also probed in relation to a range of critical factors such as gender, race, and social class. The course further delves into the reality and theory of English as a lingua franca, guiding students to understand and explore how English is learned and taught in intercultural communication and classroom settings.

Pre-requisite: None

#### **EDUC1024 INTRODUCTION TO ENGLISH LANGUAGE TEACHING**

This introductory course for English education majors aims to cover a wide range of concepts, issues, and debates relevant to language teaching and learning. It examines language learning conditions and processes and helps students see how language teaching is influenced by the ultimate goals of language learning, learner variables, and other contextual factors. Pedagogical implications link these topics to the teaching of English in Macao school contexts.

Pre-requisite: None

#### **EDUC1047 THEORIES OF CURRICULUM & INSTRUCTION**

Theories of Curriculum and Instruction provide students with basic principles of modern curriculum and instruction. It aims to improve their professionalism and teaching efficiency in all their working processes, put basic principles into creative practices, set clear objectives, select and organize contents, implement and evaluate curriculums under the guidance of ideal educational values and goals. It also helps to effect leadership in the teaching process, create an exciting learning situation and deeply involve the students in teacher-student interactions with the support of new instruction models, strategies and methods.

Pre-requisite: EDUC1000

#### **EDUC1054 MUSICIANSHIP I**

This is one of the Musicianship series courses aims at developing students' mastery of foundational musical skills. With a solid and broad music foundation, such as music theory, ear training and practice of instrument skills, students are trained to become well-rounded music teachers.

The professor will help students applying the introduced music theory and rhythmic patterns in the teaching aspects so that students will have chance to start getting familiar with music teaching for the general music classroom.

Because the nature of the music course, it is suggested that students are expected to daily practice piano and assignments in order to master their keyboard competence.

Pre-requisite: None

#### **EDUC1060 VISUAL ART I: EXPLORATION AND DISCOVERY**

Visual art as a major component of visual culture has the characteristics of inter-/cross disciplinary study which is one of the dominant trends in academic research. The course is designed to equip students with basic art skills as well as teach them ways of seeing and help develop their faculties of imagination and creativity so as to make them capable of discovering art's existence in life, aiming to provide students with a foundation for art learning. The course will not only lead students to understand different kinds of painting techniques, but also teach and let them use different materials, media and tools to experience art creation in their exploration of its 'expressivity'.

Pre-requisite: None

#### **EDUC2000 MORAL EDUCATION**

This course aims at introducing theories, principles, and examples of moral education. Topics include: the theoretical framework of moral education, moral education in classic works, character and moral education, citizenship and moral education, religion and moral education, moral education implemented in different educational settings, curriculum guideline of moral education, learning materials of moral education, moral education in various learning areas, and examples of moral education practice.

Pre-requisite: None

**EDUC2001 SOCIOLOGY OF EDUCATION**

This is an introductory course on the Sociology of Education. It provides a brief introduction to the basic sociological concepts and perspectives. By applying these concepts and perspectives, the course intends to let participants have a broad and profound understanding of Macao society and its educational system.

Pre-requisite: None

**EDUC2002 EDUCATIONAL ASSESSMENT**

This course is designed to give a fundamental understanding of the major aspects of assessment in the classroom, in education and in society. It sets the stage for educators to develop and conduct assessment in practice. Topics include purposes and principles of assessment, planning the assessment process, choosing and developing appropriate tools. This course covers, but is not limited to, the following basic concepts: formative versus summative assessment, norm versus criteria reference, high versus low stake tests, objective versus subjective items, standard setting, item analysis, difficulty and discrimination index, reliability and validity, etc. After completion of the course, participants are expected to take reasonable steps to ensure that their tests are of sufficient quality to give useful results and for making correct interpretations.

Pre-requisite: None

**EDUC2003 EDUCATIONAL PSYCHOLOGY**

This course aims to give a systematic introduction to the main concerns in educational psychology, including human development, students' learning, learning motivation, instruction and evaluation, and individual differences. Also, this course will emphasise the application of the related knowledge in educational settings.

Pre-requisite: None

**EDUC2004 現代中文寫作與教學 MODERN CHINESE WRITING AND ITS TEACHING**

本科旨在通過有目的的寫作訓練，有效地提高學生書面語言的表達能力；也在於培養學生審美情趣、發展健康個性、形成健全人格。本科教學內容包括：培養學生觀察與感受生活能力、閱讀能力、聯想能力和語言能力。此外，並指導學生就現代中文寫作，編寫教材，採用合適的教學法，以便日後在教學實踐中靈活正確運用。

先修科目：沒有

**EDUC2007 文言語法修辭教與學****TEACHING AND LEARNING OF THE GRAMMAR AND RHETORIC OF LITERARY CHINESE**

本科旨在切合澳門現行中學文言教學的內容和要求。教學內容以中學課程教學需要為導向，講授文言語法和修辭的基本知識，並注重培養學生講授文言語法和修辭知識的能力。文言修辭與文字、音韻、詞彙、語法、訓詁相關聯，故本科有助學生提高學生閱讀和欣賞古詩文的能力。

先修科目：沒有

**EDUC2014 PSYCHOLOGY OF ADOLESCENTS**

This course aims to help educators understand the characteristics of adolescents from psychological points of view. It covers the following topics: the emergence of adolescence, classic and contemporary theories, physiological and sexual development, intellectual and cognitive development, self-concept and identity formation, emotional adjustment, moral development, peer and friendship group, socialised anxiety, views on work, life, marriage and family, and adolescent problems related to parenting, schooling and social change. Lectures, group discussions, reading assignments and research projects are employed to equip pre- and in-service teachers with professional insights into the psychological well-being of teenagers (aged 10 to 18, senior primary to high school years).

Pre-requisite: None

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### **EDUC2018 SUBJECT-BASED TEACHING METHODS I (ENGLISH)**

It is so designed as to equip student teachers with the essentials of English language teaching and to develop their abilities to teach effectively at the secondary school level through reflecting upon theory and practice. It aims at familiarizing them with major ELT approaches, the techniques and strategies of integrated teaching and communicative skills, materials development and the use of multimedia aids and various resources to enrich, enliven and innovate teaching and learning.

Pre-requisite: EDUC1023 and EDUC1024

### **EDUC2019 SUBJECT-BASED TEACHING METHODS II (ENGLISH)**

This course is designed for FED students in the English stream and provides an introduction and foundation for the practical strand of the B. Ed. (Secondary) programme. EDUC 2019 is a continuation of the preceding course, EDUC 2018, and focuses in greater detail the core elements of the various language teaching techniques in the secondary English classroom. The course aims to help develop in students a pedagogically sound and reflective approach in their planning and decision-making about teaching English and to provide guidance and support in facilitating the development of students' English language teaching knowledge, skills and strategies. The different sessions of the course will give students the opportunity to apply and try out some of the teaching techniques through the development of teaching plans and micro-teaching.

Pre-requisite: EDUC2018

### **EDUC2020 FOCUSED ENGLISH SKILLS FOR ELT TEACHERS: SPEAKING**

This course is designed for FED students in the English stream and will cater to the needs of prospective English teachers in their professional lives, i.e. to read aloud teaching materials accurately and fluently, maintaining the interest of a second language learner audience and communicating meaning adequately in the process; to give lectures and produce spoken language with structures that are grammatical and generally adequate despite occasional errors; and to interact with peers in a group discussion, keeping the discussion focused and using conversational strategies effectively. There will be three focus areas in this course: (1) reading aloud English teaching materials including poems and prose passages; (2) giving short speeches or mini lectures such as recounting an experience or presenting arguments; and (3) engaging in professional interaction about content knowledge/subject matter knowledge. Students coming to this course will raise their awareness to the common English pronunciation problems of Cantonese speakers. They will also be given models of accurate pronunciation and ample practice opportunities to improve their English pronunciation, interaction strategies and oral communication skills.

Pre-requisite: EDUC2018 and EDUC2019

### **EDUC2022 TEACHING READING AND WRITING**

This course will examine the theoretical bases for reading and writing in the light of current perceptions of the processes and strategies involved in these skills and will explore recent developments and models of second language reading and writing as well as the pedagogical impact of these developments. The course will also integrate theory and practice and discuss how to teach English reading and writing lessons in Macao classrooms.

Pre-requisite: EDUC2018 and EDUC2019

### **EDUC2023 TEACHING LISTENING AND SPEAKING**

This course will review the theories and approaches related to speaking and listening and analyses the different processes and strategies that speakers and hearers use as they speak or listen. The course will also examine the pedagogical approaches to teaching speaking and listening and the design and planning of speaking and listening lessons in Macao classrooms.

Pre-requisite: EDUC2018 and EDUC2019

### **EDUC2025 TEACHING FUNDAMENTAL MOVEMENT SKILLS FOR YOUNG CHILDREN**

The course introduces the theories about the development of physical and motor movement in



early childhood, to know the foundations for teaching of movement for student teacher to develop child's movement skills and gross motor learning and to plan movement activities and lessons for fun. The primary purpose of the course is to enable students to apply principles of child motor development and learning to plan Physical activities. It will prepare students to teach, organize and manage different activities, make groups, demonstrate skills (locomotors, gymnastics and rhythmic movement) and give feedback to young children to enhance their motor skill and movement experience.

Pre-requisite: CPED1001 and CPED1002

### **EDUC2026 幼稚園中文教學 TEACHING OF CHINESE IN KINDERGARTEN**

本課程旨在讓學員認識語文學習對幼兒發展的重要性，掌握中文語文活動的教學原理、方法及發展趨勢，並學會根據幼兒不同發展階段的需要，提供不同的語言教育。期望學員能透過本課程學會如何引起幼兒對學習語文的興趣，以及全面提高幼兒聽、說、讀、寫的能力。此外，學員亦能學會評鑑幼兒語文教學之模式，及檢視如何利用不同的資源及方法鷹架幼兒語文能力的發展。

先修科目：EDUC1000

### **EDUC2027 YOUNG CHILDREN'S MATHEMATICAL ACTIVITIES**

Mathematics has always been taken seriously by educational institutions as an important discipline. In fact, mathematical concepts exist in our everyday life. The aim of this course is to introduce teaching principles and strategies that facilitate 0 to 8-year-old children's mastery of some basic mathematical concepts. It also attempts to illustrate ways to make children understand the relationship amongst simple mathematical concepts and the connection of these concepts to their everyday experiences as well as ways to foster children's interest in mathematical thinking through integrating mathematics into an overall design in curriculum and instruction.

Pre-requisite: None

### **EDUC2028 INTEGRATED CREATIVE ACTIVITIES**

This course will examine the theories of creative thinking, provide students with a deeper and broader view of creative activities and enable them to put theory into practice in their everyday life and teaching. The content will also cover the development of children's creativity, the essential elements in creative thinking, and applications of the principles of teaching for creative thinking, expression and experiences.

Pre-requisite: EDUC1000

### **EDUC2029 PLAYING AND LEARNING**

Human beings were born with the ability to play, an instinctive competence which facilitates our learning. Children's play is often mistaken as time-wasting and indulgence and its role in learning have often been neglected. The aim of this course is to re-shape students' understanding of play, especially free-play, and to highlight the value of play in children's growth and its functions in learning. It will also explore different types of play and analyse their roles in children's learning and development from various perspectives, re-state teachers' role in children's play, as well as demonstrate the relationship among play, personality and the realisation of children's potentials.

Pre-requisite: None

### **EDUC2030 PARENTAL EDUCATION AND INVOLVEMENT**

Family plays an important role in the child's upbringing. The course aims to explore how we, as teachers, can empower the parents to play a role in the positive development of the child. Emphasis is put on possibilities and strategies concerning the implementation of parent education and parental involvement in the local school context. Topics include: integrated approach to building staff-parent partnerships, family relationship and personal growth, disciplining methods and principles, parental ethics, development and implementation of parent education, and family-school collaboration.

Pre-requisite: None

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### **EDUC2032 MOVEMENT PROGRAMME FOR YOUNG CHILDREN**

This course helps students understand the importance of movement for the different aspects (physical, affective and cognitive) of child development. The course gives equal stress on theories and practice. It enables student to put knowledge into practice through engaging in group discussion, planning movement station lessons, and designing movement programmes. Pre-requisite: EDUC2025

### **EDUC2033 PRIMARY MATHEMATICS TEACHING SKILLS AND PRINCIPLES**

This course aims to develop basic skills and theory for primary mathematics teachers.

1. Mathematically speaking skills and mathematical language training
2. Introduction design in mathematics teaching
3. Writing skill and design
4. Assessment skill: Error Analysis
5. The reasoning principle and application
6. The student-centred design principle and application
7. The principle and applications from concreteness to abstraction
8. The principle and application of the step-by-step connection

Pre-requisite: None

### **EDUC2034 THE DEVELOPMENT OF MATHEMATICS INTEREST, CONCEPTS, AND KEY IDEAS FOR PRIMARY MATHEMATICS**

This course aims to develop basic mathematics knowledge and basic ability in mathematics for primary teachers.

1. Interest cultivation of primary mathematics
2. The development and training of proper mathematics problem solving habits
3. The development and training of Mathematical Beauty
4. The development and training of calculation ability
5. The development and training of Problem Solving
6. The development and training of geometric thinking and spatial concepts
7. The development and training of data collection, collation and description
8. The development and training of Algebraic Thinking

Pre-requisite: None

### **EDUC2035 CHILD DEVELOPMENT**

This course is designed to provide an introduction to the fundamentals of children's physical, cognitive, social, and emotional development, from the prenatal period through adolescence. We will use a scientific framework to guide our understanding of how factors within the child, family, and broader society shape the process of how children develop. Special attention will be paid on several key issues in details that children face in the contemporary society. Students will apply developmental theories and constructs through observation of two or three children, as well as demonstrate their in-depth understanding and analyses to important issues that have implications for the home, school, and community.

Pre-requisite: None

### **EDUC2036 PHYSICAL EDUCATION II - SPORT EDUCATION AND EXERCISES HABIT DEVELOPMENT FOR YOUNG ADOLESCENT**

Students in upper level primary are more mature to handle different sport activities. This programme emphasizes the learning of how to teach athletic and ball games to upper primary school students. Modified sports activities and systematic learning are the major contents in teaching with purpose to assist the development of exercise habit in activities. In this course, the developmental sequences of athletic activities and ball skills are introduced. Relevant background knowledge, game complexity and transfer, games sense, curriculum arrangement, assessment format, rules and regulations and safety measures will be covered to assist the teaching and learning of different sport activities.

Pre-requisite: None

### **EDUC2037 INTEGRATED ACTIVITY TEACHING AND DESIGN FOR PRIMARY EDUCATION**

The course aims to introduce participants the rationale of Integrated Activity Teaching and Design for Primary Education. At the end of the course, participants are able to plan and design integrated curriculum and activity according to the ability, interest and necessity of primary students. As there are differences in adapting the integrated concept in Chinese and English teaching and if there is an available of suitable colleagues, students will be divided in groups of Chinese and English in programme learning.

Pre-requisite: None

### **EDUC2038 ELEMENTARY MATHEMATICS TEACHING & RESEARCH**

All over the world, students encounter persistent difficulties (both cognitive and affective) in their learning of some elementary mathematic topics (e.g. fractions, negative numbers, solving word problems, mathematical proofs). Course participants will be studying empirical research reports of relevant teaching experiments that aim to help students overcome these learning difficulties. Under the instructor's guidance, course participants are expected to devise or revise lesson plans in light of research findings and to engage in reflective action research so as to relate theory with practice.

Pre-requisite: EDUC1000

### **EDUC2041 ENGLISH GRAMMAR**

This course, drawing on both traditional and modern English grammar, provides opportunities for students to develop their grammatical knowledge of the English language that is particularly relevant to Macao school English teaching context. The course helps students to develop a sound understanding of key concepts in English grammar. Students will be able to differentiate and explain key grammatical phenomena, e.g. word classes, clause types, and clause functions etc., and apply their knowledge in activities and real language use. The teaching approach adopted for this course will involve teacher lectures as well as student text-based discussion, analysis and presentation of key grammatical concepts, as well as mock teaching of particular grammar items. Upon successful completion of this course, students will be able to interpret grammatical phenomena in current English course-books confidently, and demonstrate grammatical accuracy in academic and professional speaking and writing.

Pre-requisite: None

### **EDUC2042 ENGLISH PHONOLOGY**

The course examines descriptively the phonetics and phonology of contemporary English. Students will be introduced to the scientific study of speech sounds, articulatory mechanisms and rules governing the combination of sounds in the English language. The major accents described are the British one known as 'Received Pronunciation' (RP) and General American (GA) while other accents will be compared where necessary. Ways to implement the teaching of English phonics and phonology to children will also be discussed.

Pre-requisite: None

### **EDUC2044 GUIDED CHINESE READING AND WRITING**

This course is designed to equip pre-service student teachers with the knowledge and skills of Chinese teaching. The contents include an overview of the development of reading and writing instruction theories, a variety of teaching strategies, and also the appreciation and creation of different texts. In addition, integrated reading and writing activities will also be arranged to facilitate teaching and learning. The main teaching strategies applied in this course are instruction, modeling, cooperative learning, investigative learning and problem based learning.

Pre-requisite: None

### **EDUC2045 TEACHING OF PHYSICAL EDUCATION**

The course aims at helping students to understand the importance of teaching physical education in school and process in attaining the expected goal in education. Mosston's Teaching Spectrum and approaches in Games Learning will be introduced. Students will have

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chances to learn about various principles and methods in teaching, motives in learning, curriculum planning, evaluation and assessment, safety issue and development of health-related fitness in children. The principle of Discrete Trial Training (DTT) will be adopted. The purpose is to assist students' professional build-up of knowledge in games teaching in children with simple but structured and connected trials.

Pre-requisite: EDUC1015 or EDUC2036

#### **EDUC2046 TEACHING OF MUSIC: ELEMENTARY GENERAL MUSIC METHODS**

The course is the continuation of Musicianship I and Musicianship II and aims at the development of students' knowledge in teaching music at primary school. It includes advanced music theory and sight reading training. Students are expected to familiar with the knowledge and apply in their music teaching. Besides, advanced piano accompaniment will also be included in the course. The teacher will introduce the textbooks and curriculum standards from several nations so that students will have global prospective of music teaching. Furthermore, the most leading music method, Orff Music Method, will also be introduced in the course. Students will be expected to familiar with the concepts of this method and apply it in their music teaching. At last the music assessment will be used in the course so that students can understand their own progress from teacher, peers and themselves. The evaluations can also be used as an effective assessment methods for their future music teaching.

Pre-requisite: EDUC2063

#### **EDUC2047 詩文選讀與教學**

##### **GUIDED READING AND TEACHING OF CHINESE PROSE AND POETRY**

本科講授中國詩詞與散文的特點、形式與異同，以歷代詩詞、散文為主要教材，闡釋名家名作的題材、意境、寫作技巧等，引導學生賞析研習，培養學生運用多種教學法的能力，使他們在小學課堂中有效進行詩、文教學，並能根據教學實踐，參與及調整課程與教學目標、進度。

先修科目：沒有

#### **EDUC2049 SUBJECT BASED TEACHING METHODS (SECONDARY MATHEMATICS) I**

This course focuses on empowering course participants to write teachable lesson plans and programme of study pertaining to three key domains of secondary mathematics curriculum: elementary expressions and functions depicting changes and relationships; and coordinates, synthetic and dynamic geometry; special topics of mathematical investigations. Due attention is paid on professional treatment of a number of issues that have a bearing on successful meaningful student learning: educational objectives in accordance with key stages of secondary education; mathematical literacy, competencies, and thinking underpinning various pedagogic and instructional models; history of development of mathematics in different cultures; psychology of mathematics learning, particularly for Chinese learners and different gender; use of calculators and ICT tools for mathematics education; and good balance of assessment of learning and assessment for learning.

Pre-requisite: EDUC1022

#### **EDUC2050 ELEMENTARY MATHEMATICS TEACHING AND RESEARCH**

Around the world, students encounter persistent difficulties (both cognitive and affective) in their learning of some elementary mathematics topics (e.g. fractions, negative numbers, solving word problems, mathematical proofs). Course participants are empowered to study empirical research reports of relevant teaching experiments that aim to overcome these learning difficulties. Under guidance, they are expected to devise or revise lesson plans in the light of research findings and engage in reflective action research so as to relate theory and practice underpinning the teaching experiments.

Pre-requisite: EDUC1000

#### **EDUC2063 MUSICIANSHIP II**

The series of Musicianship courses aims at developing students' mastery of foundational musical skills. With a solid and broad music foundation, such as music theory, ear training and

practice of instrument skills, students are trained to become well-rounded music teachers. As well, students are expected to master the use of both traditional and modern technology (computer, music software and web-based tools) in their music exercises and apply that in the future teaching.

This is the continuation course of Musicianship I. The contents of this course include chord progression, identify the essential concepts of chordal seventh, compound melody, rhythms, and more complicated structural counterpoint that are used in the tonal music. The pedagogical approach will also be introduced in the course. The professor will help students applying the introduced medium level music theory and rhythmic patterns in the teaching aspects so that students will have chance to start getting familiar with music teaching for the general music classroom.

Because the nature of the music course, it is suggested that students are expected to daily practice piano and assignments in order to master their keyboard competence. Besides, in order to become a competent music teachers for the general music classroom nationally and internationally, recorder training will also be included in the course. Student should be able to perform simple children songs with recorder by end of the semester.

Pre-requisite: EDUC1054 or equivalent (by audition)

### **EDUC2064 TEACHING OF MUSIC I**

The course aims at equipping students with knowledge and skills of teaching music at pre-primary level in Macao. Music theory, singing skills, and basic piano accompaniment techniques will be introduced in this course. Besides, students will learn various essential concepts of music teaching including designing lesson plan and curriculum, music and movement activities that promote the development of pre-primary students. Moreover, the world leading music methods, Orff and Kodaly music methods will also be introduced for students to develop musical creativity in the classroom. Through identifying the concepts and contents of "The Requirements of Basic Academic Attainments" (基本學力要求), which was published by Macao SAR (Special Administrative Region) government in 2015, students will be able to teach a meaningful and successful music class for pre-primary students.

Pre-requisite: EDUC1054

### **EDUC2066 VISUAL ART II: THEORY AND PRACTICE**

Visual art as an articulate form of visual culture is capable of displaying the dynamic cultural relationships between/among different academic disciplines and life domains. Its products are not merely 'decorations' to please the eyes; they respond to life's profound problems through expression of their creators' cultural, historical, and life concerns. The course aims not only to familiarize students with the languages of traditional and contemporary Chinese and Western visual arts, but also to help them explore the relationship between visual art and life through art practice, leading them to understand the beauty, style and culture of art through experimenting with different media and techniques.

Pre-requisite: EDUC1060

### **EDUC2067 TEACHING OF VISUAL ART**

The course provides students with an opportunity to understand visual art education in both local and global contexts. While studying curriculum design and the diverse modes of teaching in visual art (interactive, integrative and interdisciplinary), students will also be led to examine the role of visual art in education and given an opportunity to design a curriculum in visual art education.

Pre-requisite: EDUC1060

### **EDUC3000 INTEGRATING IT INTO TEACHING AND LEARNING**

The aim of this course is to equip the students with the latest theoretical knowledge in multimedia learning, practical skills on computer tools, and a critical understanding of the application and value of IT in teaching and learning so as to allow students to implement, integrate and manage IT in their actual classroom environment.

Pre-requisite: None

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### **EDUC3001 EDUCATIONAL ADMINISTRATION**

This course allows students to understand the basic concepts of educational administration. Students will study and discuss Macau educational acts and decrees. They will also learn the basic theories related to educational administration, such as theories with regard to motivation, leadership, communication and organizational decision-making. Attempts will be made to make this course related to the educational reality in Macau.

Pre-requisite: None

### **EDUC3002 EDUCATIONAL RESEARCH**

The main aim of this course is to enable a qualified teacher to use, understand, analyze and evaluate research outcomes. The course includes: (1) the basics of educational research, (2) structure and procedures of education research, (3) research variables, (4) hypotheses and topics, (5) literature review, (6) on-line search, (7) sampling, (8) questionnaires, (9) correlation analyses, (10) interviews, (11) case studies, (12) evaluation of research reports, (13) educational research ethics, etc.

Pre-requisite: None

### **EDUC3003 INTRODUCTION TO SPECIAL EDUCATION**

This course is designed to provide an introduction to the characteristics of children with special needs or disabilities. Emphasis will be put on several types of children with special education needs—learning disabilities, emotional and behavioural disorders, attention deficit and hyperactivity, autism, and mild intellectual disability. This course also provides some practical guidelines on how to teach in inclusive classrooms.

Pre-requisite: EDUC1000 and EDUC2003

### **EDUC3004 INTRODUCTION TO SPECIAL EDUCATION**

This course helps students to understand more about children with special needs. It introduces the definitions, causes, characteristic and categories of the disabilities in early childhood. The content will also cover instructional theories, principles and tactics, assistance methods, IEP and programme planning, assessment for children with special needs, and positive attitude. Through this course, students will be able to help these children more effectively with early intervention or special education programmes to assist their potential developments. In addition, students will be taught how to make use of the pre-school and school-age special education measures and services in Macao in order to help those children and their families, and they will understand the effects and importance of parents' and professional teams' participation in the education of children who have special needs.

Pre-requisite: EDUC1000 and EDUC2003

### **EDUC3006 TEACHER ETHICS AND TEACHER PROFESSIONAL DEVELOPMENT**

The aim of this course is to prepare students to develop teachers' professional morality. After that, they can give their students 'whole-person' education by integrating teachers' instruction, their model and their environment. The experience and the development of teacher's professional morality are fully represented in the different relationships in their work, including facing themselves, their colleagues, students, students' parents and society. The content of this course includes learning different principles of teachers' professional ethics, and how to use and develop these theories reasonably in their teaching lives.

Pre-requisite: None

### **EDUC3010 中國思想史與教育**

#### **HISTORY OF CHINESE THOUGHTS AND EDUCATION**

本課程旨在幫助學生了解思想史的概念和發展，中國思想史的觀念、思路和發展脈絡，中國思想史與中小學中文（語文）教育之間的聯係，使學生明白並掌握如何探討中小學中文（語文）教育之中的思想建構和內涵，提升中文（語文）教學的技巧和質素，為其日後在中小學教授中文（語文）課程做出準備。

先修科目：沒有

### **EDUC3013 ASSESSMENT IN SCIENCE EDUCATION**

Formative classroom assessment advances learning by providing feedback to teachers and students about learning attainment. The course focuses on how evidences of learning can be collected through classroom formative assessment and evaluated by teachers for instructional purposes. Students will explore new assessment approaches capable of collecting data on learning across STEM content areas and Bloom's cognitive levels. The class will explore new information infrastructures that support student learning and classroom assessment. The roles of teachers and learners in supporting assessment of this kind will be discussed.

Pre-requisite: None

### **EDUC3018 SOCIO-CULTURAL ASPECTS OF ENGLISH LANGUAGE TEACHING**

This course deals with the social, political, and cultural dimensions of English language teaching. It aims at developing among the students an understanding of the socio-cultural situatedness of ELT pedagogy and associated political dynamics, the international spreading of English and its impacts, and the role of intercultural competence in successful language learning. Topics to be covered include language identity, World English, globalisation and localisation related to ELT, and sociolinguistic relativity and causes of miscommunication.

Pre-requisite: EDUC2018 and EDUC2019

### **EDUC3019 CREATIVE IDEAS IN THE ENGLISH LANGUAGE CLASSROOM**

This course will first review the communicative approach to language teaching. While building upon students' existing knowledge of language teaching and introducing to them categories and samples of creative activities that encourage ESL/EFL learners' fluency, flexibility, elaboration and originality, the course aims at cultivating in students the concept of creativity in language teaching and developing their competence in designing English lessons with creative ideas and fun but without sacrificing the important element of meaningful practice of target language items or language skills. The course will provide students with hands-on experience in planning and conducting creative English lessons through the development of teaching plans and micro-teaching.

Pre-requisite: EDUC2018 and EDUC2019

### **EDUC3020 SOCIAL AND CULTURAL ACTIVITIES**

Based on the best practices in early childhood education, the course aims to help students understand the importance of the social domain in the kindergarten curriculum. Through this course, students will learn the designing of social and cultural activities, study the teaching and learning strategies in this area, and master the methods of helping young children develop social awareness and social competence in a democratic, culturally diverse and interdependent world.

Pre-requisite: EDUC2001 and EDUC2003

### **EDUC3021 HEALTH AND CARE FOR YOUNG CHILDREN**

Childhood is the earliest, most vulnerable and difficult nursing stage and also the most important stage in our lives. This course will equip students with the knowledge and understanding of children's growth, health and care, the foundation of the pre-primary education field. It will introduce how to provide children with appropriate nutrition and how to handle their common diseases, injury and safety. Topics include principles of children's growth, their behavioural and emotional characteristics, analysis of the positive and negative factors and ways to provide a safe and healthy environment for growing children. Students can apply the theories and knowledge in kindergartens to promote health education and to work towards the goal of holistic health and care.

Pre-requisite: None

### **EDUC3023 EDUCATIONAL TECHNOLOGY IN EARLY CHILDHOOD EDUCATION**

Technology is affecting all aspects of society including early childhood classroom and lives of young children including parents. Early childhood educators need to be literate in technology in order to empower them to use technology effectively in early childhood settings. In order for

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educators to make informed and appropriate decision, this course aims to cover current issues in the field of technology integration in early childhood education using authentic contexts. Topics include essentials conditions of technology integration, learning theory and its integration strategy, common and emerging technologies in early childhood classroom together with instructional planning skills.

Pre-requisite: None

#### **EDUC3024 CURRICULUM AND INSTRUCTION IN EARLY CHILDHOOD EDUCATION**

This course seeks to introduce course participants the principles of curriculum development and design, grounded on contemporary theories of learning and the ECE curriculum standards promulgated in Mainland, Taiwan, Hong Kong and selected western countries. Influential ECE curriculum models practiced in local and abroad will be introduced. With reference to the ECE teaching materials commonly used in Macao kindergartens, course objectives, contents, implementation and evaluation will be elucidated to help participants plan a course that is educationally appropriate to the pre-primary children. Course participants are taught, basing on influential models of integrated thematic study to practice individually arranged education.

Pre-requisite: EDUC1000 and EDUC1013

#### **EDUC3025 ENGLISH LANGUAGE LEARNING IN EARLY CHILDHOOD**

This course is intended to introduce practical strategies in teaching pre-primary pupils English as a second or foreign language through the use of various language activities such as games, songs, nursery rhymes, role plays, and story-telling. Course participants also have opportunities to learn how to design and adapt different teaching materials and resources in order to develop pre-primary pupils' learning interest and maximize their learning outcomes in the classroom. The course also helps participants to develop their own English phonological, grammatical and lexical competence.

Pre-requisite: None

#### **EDUC3026 GUIDANCE IN EARLY CHILDHOOD**

This course aims at equipping students of early childhood education with the knowledge of guidance and counselling so that they are able to take up the role of teacher-counsellors. This course will introduce classical and contemporary theories in guidance and counselling and include five components to facilitate the united growth of young children: basic concepts of guidance and counselling, personal growth, personal and social education, problem behaviours in early childhood, and counselling techniques. Various approaches of working with families in guiding children's behaviours are also covered.

Pre-requisite: EDUC2003

#### **EDUC3027 ASSESSING YOUNG CHILDREN**

To enable students a comprehensive understanding of young children's learning and development, this course provides an overview of educational assessment and introduces the principles and practices of authentic assessment which is highly valued in early childhood education. It explains why and how infants and young children should be assessed, discusses the contexts for authentic assessments, illustrates multiple strategies for collecting information on children's learning and development, and highlights the importance of conducting systematic observations and recording in the information collecting process. Through this course, students will understand how to utilize assessment information in improving the curriculum and teaching quality and facilitating parent-school partnership. Assessment practices will be linked to the local curriculum guideline which also underpins authentic assessment as the principal means of assessing young children. Ethical issues in this area will also be discussed.

Pre-requisite: EDUC1013 and educ3024

#### **EDUC3028 INTEGRATED GENERAL STUDIES AND SCIENTIFIC ACTIVITIES**

This course aims to introduce the content of general studies and scientific activities and the concept that young children's living activities are undertaken in the natural and social



environment. The course will help students introduce to children the different operational methods such as observation, comparison, communication, measurement, inference and forecast. The design of scientific games in this course will encourage children to take an active role in constructing scientific concepts and cognition. The content of this course includes (1) objective, meaning, affective manner and value of scientific inquiry; (2) objects; (3) exercise and energy; (4) living things; (5) the earth; (6) living things and the environment and (7) life education.

Pre-requisite: None

### **EDUC3029 CHILDREN'S LANGUAGE AND LITERATURE**

This course elucidates issues in language acquisition and children literature to teacher trainees. Course participants are empowered to enhance the literacy development of children through literature. Topics covered include: (1) major theories of language acquisition; (2) definition, typology, values and educational functions of children literature; (3) relationships between language and literature for children; (4) application of children literature in language teaching.

Pre-requisite: None

### **EDUC3031 EDUCATIONAL EVALUATION**

This course seeks to introduce basic assessment notions and methodologies to students so that they can make use of the assessment feedback and interpretation professionally to improve teaching and learning, to monitor children's all-round development and report their progress up to the age of late childhood (0-8 years). Guided by contemporary theories of learning and human development, course participants are empowered to design and administer assessment tools that tie in well with the course objectives and classroom processes of the early childhood education curriculum. At the end of the course, teachers should be conversant with the 'know-what', 'know-how', and 'know-why' of formative curriculum-embedded assessment, and feel competent to apply the knowledge and skills acquired in authentic home and schooling contexts.

Pre-requisite: EDUC1000

### **EDUC3033 EDUCATION PLANNING AND CREATION OF LEARNING ENVIRONMENT**

This course aims to help students understand that a planned and diversified learning environment can allow children to choose their preferred environment according to curriculum, interests and abilities. Through specific and creative experiments, this course helps students understand how children learn and behave in different kinds of environments. From the planning of learning areas, placement and execution, students will be able to arrange appropriate learning environments for children, to have good interactions with them and to arouse their interest in learning. The content will also cover suggestions for different teaching activities and the link between curriculum planning and the design of learning environment.

Pre-requisite: None

### **EDUC3036 ASSESSMENT AND IMPROVEMENT OF EFFECTIVE TEACHER - CHILD INTERACTIONS IN EARLY YEARS EDUCATION 0-8**

This course is focused on theories and practices related to effective teaching in early childhood classrooms serving children birth through 8. Students will gain a deep knowledge and understanding of the types of moment-to-moment teacher-child interactions that foster learning and development among young children. They will learn to identify specific teaching behaviors that support effective emotional, behavioral and instructional support interactions. Moreover, students will also be given ample opportunities to practice observational skills for identifying effective interaction behaviors as well as reflecting on their practice.

Pre-requisite: None

### **EDUC3037 CURRICULUM & INSTRUCTION OF PRIMARY MATHEMATICS**

This course aims to develop basic curriculum knowledge and teaching ability in mathematics for primary teachers.

1. Primary Mathematics Curriculum outline in Macao and others

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2. The lesson design and example for mathematics concept development
  3. Preparation of lesson plans, worksheets design, and example
  4. Mathematics exercise design
  5. Expanding the word problems --- design review & current design issues and solutions
  6. Word Problem posing and design
  7. The method of assessment and instructional design
  8. Geometry Teaching Practice and example
  9. Examples and lesson design of Calculation topics
  10. The school observation
  11. Teaching Practice Sharing
- Pre-requisite: EDUC2033

### **EDUC3038 小學中文教學 TEACHING OF CHINESE IN PRIMARY SCHOOLS**

本課程旨在引導學生學習拼音、識字、閱讀、寫作、說話/聆聽、書法等教學理論與方法，擴充其中國語文教學專業知能（語文知識、學習策略知識、語文技能、自我調整運用學習策略能力、鑑賞能力、教學方法、學習輔導能力，與課程綱要）。教師將結合討論教學、示範教學、問題導向學習、合作學習等教學策略，藉由精心設計的問題，引導學生分析教材、掌握小學生需求、選用適當的教學法、設計教學活動與評量活動。學生將從教師的教學設計與教學示範中親自感受學生中心的小學中文科教學活動，並且親身體驗多元評量的歷程。

先修科目: EDUC3040

### **EDUC3039 TEACHING OF SOCIAL STUDIES IN PRIMARY SCHOOLS**

This course aims to help learners understand various teaching approaches and methods in the field of social studies in primary schools. The learners will investigate social studies materials and teaching methods, so as to cultivate knowledge and skills for teaching elementary social studies. Activities such as lesson plan designing and teaching demonstration are included to equip learners with practical abilities regarding teaching.

Pre-requisite: EDUC1000

### **EDUC3040 小學中文課程與教材 CHINESE CURRICULUM AND COURSE MATERIALS IN PRIMARY EDUCATION**

本課程以促進學員對小學語文科的課程內容、傳統語文教學、本澳及鄰近地區的語文課程發展暨未來改革有全面瞭解，並就小學語文課程所涉及的教材與教學資料的編輯與選擇加以全面掌握，以提升學員對小學語文課程之認識及專業修養，並進一步提高其教學水平。

先修科目: EDUC1000

### **EDUC3043 TEACHING OF VISUAL ART**

The course introduces the issues, concepts, philosophy and content of visual arts teaching to assist students in developing confidence, knowledge, and skills in the theory and practice of teaching visual arts. The emphasis of the course is on visual arts curriculum and lesson planning, motivational strategies, art classroom management, and alternative assessment in visual arts.

Students will participate in extensive field experiences exploring methods and materials appropriate to the teaching of visual arts in a primary school setting. The course content includes topics on 'principles of visual arts teaching,' 'methods of visual arts teaching,' 'visual arts teaching: planning and design,' 'visual arts teaching: classroom organization and management,' 'evaluation of visual arts teaching,' etc.

Pre-requisite: EDUC1060 and EDUC2066

### **EDUC3044 CLASSROOM MANAGEMENT**

This course aims to introduce classroom communication and classroom management, so that primary teachers are able to effectively manage their classrooms and to facilitate their teaching and student's learning. Topics in classroom management are developing the relationship

among teachers, students and parents, understanding the learning needs of students, increasing students' learning motivation, setting rules, discipline management, problem behaviors management, and helping individual student self-manage.

Pre-requisite: EDUC2001 and EDUC2003

### **EDUC3047 TEACHING OF ENGLISH IN PRIMARY SCHOOLS I**

The course aims to equip participants with knowledge of primary English language teaching curriculum and strategies to help primary students develop the skills necessary for effective reading and writing. It examines the important issues related to planning, delivering and evaluating English language instruction, explores recent developments in teaching reading and writing skills, and discusses pedagogical implications for the Macao context. Course participants will be helped to make connections between theory and practice and between international literature and local practice. They will be encouraged to engage in critical reflection, challenge accepted principles, and critique their own practice.

Pre-requisite: None

### **EDUC3048 TEACHING OF ENGLISH IN PRIMARY SCHOOLS II**

The course helps students to develop practical skills for teaching English (e.g. grammar and vocabulary) in primary English classrooms in Macao. The course also helps students to further develop their own grammatical and lexical competence and awareness. The teaching approach adopted for this course involves use of a variety of methods such as lectures, questioning, group presentation and discussion in class. All students are expected to do the required reading and complete all assignments or exercises.

Pre-requisite: None

### **EDUC3049 TEACHING OF SCIENCE AND TECHNOLOGY**

This course aims to train participants' skills and abilities in teaching science and technology in primary schools so as to make professional preparations for teaching primary science (natural studies). This course will help participants know the features and tendencies of contemporary primary science education, learn the concepts, theories, and methods of science and technology teaching, and recognize current situations and existing problems in primary science (natural studies) teaching in Macao. The content of this course includes the nature of science and technology, the curriculum of primary science, processes and methods of scientific inquiry, processes and methods of technological design, and teaching design and assessment of science and technology in primary science. Lectures and demonstration, group discussion, hands-on activities, technological design, and microteaching will be adopted as teaching methods in this course.

Pre-requisite: None

### **EDUC3050 SUBJECT BASED TEACHING METHODS (SECONDARY MATHEMATICS)II**

This course focuses on empowering course participants to write teachable lesson plans and programme of study pertaining to two key domains of secondary mathematics curriculum: numbers and algebra; and statistics and probabilities. Due attention is paid on professional treatment of a number of issues that have a bearing on successful meaningful student learning: educational objectives in accordance with key stages of secondary education; mathematical literacy, competencies, and thinking underpinning various pedagogic and instructional models; history of development of mathematics in different cultures; psychology of mathematics learning, particularly for Chinese learners and different gender; use of calculators and ICT tools for mathematics education; and good balance of assessment of learning and assessment for learning.

Pre-requisite: EDUC2049

### **EDUC3051 LEARNING TECHNOLOGY FOR SECONDARY MATHEMATICS TEACHING**

The use of dynamic mathematics software can not only help students develop a better understanding of abstract mathematics concepts, but also help students look into the essence of mathematics and develop a positive attitude towards mathematics learning. This course aims

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at enhancing student teachers' understanding of various applications of learning technologies, so as to empower them to use the contemporary technologies effectively in secondary mathematics teaching and learning. Specifically, the course provides an overview of the latest development of learning technologies, with emphases on its effective use with appropriate instructional designs. To achieve this end, this course will examine how to integrate contemporary learning technologies with recommended instructional methodologies within secondary mathematics learning contexts so as to fulfill the objectives of the mathematics curriculum standards. After completion of the course, student teachers will be able to integrate the acquired learning technologies to support students' development in mathematics education, and take up related challenges with confidence and efficacy.

Pre-requisite: EDUC3050

### **EDUC3056 SCIENCE EDUCATION IN SECONDARY SCHOOLS**

This is a compulsory course for the INS program. This course aims to provide various opportunities for students to understand basic concepts, principles, and theories in the field of science education and recognize the salient tendencies and features of science education development around the world. In particular, curriculum reforms and instructional innovations in school science in Macao as well as mainland China are highlighted. To become qualified science teachers in Macao and beyond, students are exposed to various kinds of processes, methods, skills of science teaching, and concrete teaching cases as well. Students are requested to critically analyze science curriculum and teaching materials currently used in secondary schools and learn to prepare science lesson plans. Moreover, opportunities are provided for them to conduct micro-teaching in the simulated context of school science. The instructional strategies and methods are diversified, involving lecture, guided reading, discussion, class observation, and micro-teaching.

Pre-requisite: APAC1001 and EDUC1000

### **EDUC3057 SCIENTIFIC INQUIRY AND PRACTICAL WORK IN SECONDARY SCHOOLS**

This is a compulsory course for the INS program. This course aims to help students study two important topics in the context of school science, science inquiry and practical work, both of which are interconnected. The concepts, principles, and methods about these two topics and relevant teaching models are introduced. In particular, the contents and forms of science inquiry and practical work included in the currently used curriculum and teaching materials in Macao and mainland China are highlighted. Opportunities are provided for students to conduct various types of practical work in science lab and learn to design hands-on activities in the view of science inquiry, enabling them to become qualified science teachers who are competent in teaching with science inquiry and practical work. The instructional strategies and methods are diversified, involving lecture, guided reading, lab work, and micro-teaching.

Pre-requisite: EDUC3056

### **EDUC3059 EMERGING PEDAGOGIES OF STEM TEACHING**

This course focuses on STEM implementation at the classroom level with the focus on learner centered instruction. Student will explore both traditional and emerging teaching approaches that support STEM inquiry-based learning. Developing appropriate STEM learning activities that aligning with learning objectives and the development of learning products will be emphasized. The use of assessments to facilitate learning will be emphasized. The roles of teachers and learners in supporting learning of this kind will be discussed. The class will also explore and use various technologies; digital media and STEM resources coordinated by FST's Centre for Science & Engineering Promotion that support STEM education and learning. For this course, in addition to vivid demonstrations and innovative hand-on experiences, students are required to intern with academic staff and graduate students in FST on a research/design project.

Pre-requisite: None

### **EDUC3062 EDUCATIONAL PROBATION (INTERNSHIP)**

The one-week course is designed for pre-service teachers (Primary Education Program) to observe how homeroom teachers manage classrooms and what and how instructional

practices are implemented in grades 1 to 6 in the Greater Bay Area. Student teachers must follow the professional ethics of school teachers and the regulations of UM and the internship schools during the educational probation. In most cases, primary school teachers need to teach more than one subject when necessary. In order to expand student teachers' abilities in teaching different subjects, the subjects/classrooms will be randomly assigned to student teachers for teaching observation. Note. Students' language proficiency will be considered. English stream students may be assigned to observe non-English teaching classrooms. Pre-requisite: EDUC3000, EDUC3004, EDUC3037, EDUC3040 or EDUC3047

### **EDUC3063 中文閱讀與寫作教學 TEACHING CHINESE READING AND WRITING**

This course prepares students for teaching reading and writing in secondary school, and supports them to develop a reflexive approach towards learning to teach secondary literacy. Students will develop a solid understanding about literacy development in secondary school students and principles for teaching secondary literacy. They will learn a range of methods for teaching reading and writing and develop a repertoire of strategies for reading and writing instruction across genres. They will also learn how to analyse Chinese curriculum and develop resources, materials and strategies to promote secondary school students to be motivated and strategic readers, writers and learners.

Pre-requisite: None

### **EDUC3064 中文教育評估與考核 ASSESSMENT AND EVALUATION IN CHINESE EDUCATION**

This course introduces fundamental aspects of assessment in Chinese education. Students will learn principles of assessment, different types of assessment, and the relationship of assessment with student learning and classroom instruction. Major concepts covered in this course include reliability and validity; norm- vs. criterion-referenced testing; formative vs. summative assessment; performance assessment; and portfolio assessment. Students will be equipped with a suite of knowledge and skills for constructing, analysing and evaluating tests and assessment tasks for Chinese language and literacy. They will also develop essential data literacy skills for interpreting and using assessment results for informed educational decisions.

Pre-requisite: None

### **EDUC3065 中學課堂管理（中文教育） SECONDARY SCHOOL CLASSROOM MANAGEMENT (CHINESE EDUCATION)**

This course will present a broad overview of classroom management, including its theoretical basis, authentic practice, and practical implication, for Year-three undergraduate students. The course aims to enhance students' ability to design different approaches and establish relevant rules and procedures for the effective classroom management system. At the same time, how to manage individual student behaviour is one essential parts of this course. The course will help students to develop their own strategies to build an inclusive, productive and well-structured learning environment.

Pre-requisite: None

### **EDUC4000 SCHOOL COUNSELLING AND GUIDANCE**

This course aims to introduce school counselling theories and classroom management techniques. It covers basic counselling knowledge and skills to facilitate the personal growth of teachers and their students. Furthermore, the course encourages teachers to practise their counselling skills within their school settings.

Pre-requisite: None

### **EDUC4001/EDUC4002/ EDUC4003/EDUC4004/ EDUC4022/EDUC4023 SUPERVISED TEACHING AND SCHOOL EXPERIENCE**

This course aims at preparing student teachers to become effective teachers. Student teachers will be placed in local schools and receive school-based learning. It provides an opportunity for

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them to teach independently in a workplace context wherein they could merge theory and practice, get hands-on experience and develop teaching and classroom management skills. There is regular and close supervision from FED supervisors, who will observe student teachers' classes to see whether they demonstrate competence and efficiency to meet the needs of their students by applying what they have learned over the years. Capable and experienced teachers in practice schools are appointed to help as tutors/mentors and to work in close collaboration with FED supervisors to provide guidance and pastoral care. Through regular meetings, detailed discussions and assessment during the process, student teachers are expected to make observable progress.

Pre-requisite: None

#### **EDUC4006 中學中文章法教學**

##### **TEACHING OF ORGANIZATION OF WRITING IN SECONDARY SCHOOL**

本科旨在揭示中文章法的意義與特色；闡釋章法學的地位與價值，介紹各類章法：「正襯類章法」、「因果類章法」、「知覺類章法」、「空間類章法」、「虛實類章法」、「凡目類章法」等；說明中學中文章法教學之道，引導學生對各類章法論述、研讀與探討，以養成學生對中學中文章法教學的認知與興趣，充實教授中學中文章法的能力。

先修科目：沒有

#### **EDUC4007 論孟與教育 ANALECTS OF CONFUCIUS AND THE WORKS OF MENCIUS**

本科旨在使學員把握論語與孟子的基本研究方法和義理。教學重點包括：孔孟的思辨方法、教育思想、人文精神、人性本質、生命理想及德性實踐。課程著重從論語與孟子的文獻中，擷取重要篇章，加以詮釋，抉發其深義，以使學員對孔孟的儒學思想和教育精神有如實的理解與真切的體驗。

先修科目：沒有

#### **EDUC4009 文學評論與教學 CHINESE LITERARY CRITICISM AND ITS TEACHING**

本科旨在介紹中國文學的傳統批評理論和文學批評的目的、意義、方法，揭示現代的批評理論，培養學生就作家、作品、文學創作和文學現象加以評論的能力。此外，並指導學生就文學評論等議題，編寫教材，採用合適的教學法，以便日後在教學實踐中靈活正確運用。

先修科目：沒有

#### **EDUC4011 PRACTICAL CLASSROOM ENGLISH**

This course focuses on the choice of right words and phrases and the appropriate techniques for teachers when they use English to give instructions, ask questions, make comments, give disciplinary intervention in the classroom and encourage their learners to respond in English. The course also examines the English classroom as a communicative context with regular patterns of communication that are negotiated between teachers and students and helps teachers develop ways of promoting more effective patterns of discourse in the English classroom. In particular, issues related to the medium of instruction and the code-switching phenomenon in Macao classrooms will be discussed.

Pre-requisite: EDUC2022 and EDUC2023

#### **EDUC4024 教育研究方法 Educational Research Methods**

This course will present objectives, features, and commonly-used strategies of qualitative, quantitative and mixed-method research for Year-four undergraduate students in Chinese Education. This course aims to build students' awareness and ability to understand, interpret, and apply different research approaches in authentic educational contexts and prepare them for conducting empirical studies at a later stage. At the same time, students are expected to understand and apply pedagogy of Chinese education through conducting action research.

Pre-requisite: None

#### **EDUC6001 INTRODUCTION TO EDUCATION**

This course aims to help students understand the general law of the human education system.

From historical, theoretical and practical perspectives, the course explores (1) the fundamentals of education, (2) the relationship between education and social, political, economic and cultural developments, and (3) the relationship between education and human physical and mental developments (4) education purposes (teleology), and (5) the relationship between teachers and learners. It also discusses issues about education systems/structure, curriculums and instruction, moral education, educational management, etc.

Pre-requisite: None

### **EDUC6002 EDUCATIONAL PSYCHOLOGY**

Educational Psychology includes both psychology and education. The course aims to introduce theories and practices of educational psychology, which includes (1) the fundamentals of educational psychology, (2) the relationship between psychology and education, and the (3) application of educational psychology.

Pre-requisite: None

### **EDUC6003 TEACHER ETHICS**

The aim of this course is to prepare students to develop teachers' professional morality. The experience and the development of teacher's professional morality are fully represented in the different relationships in their work, including facing themselves, their colleagues, students, students' parents and society. The content of this course includes learning different principles of teachers' professional ethics, and how to use and develop these theories reasonably in their teaching lives.

Pre-requisite: None

### **EDUC6004 TEACHING PRACTICE**

Though classroom observing, microteaching, listening to their supervisors' guidance on the design of teaching activities before their teaching practice, and discussing thoroughly their performance after teaching practice and how to improve it in the future, etc, the teacher-trainees' teaching professional standards can be improved continuously.

Pre-requisite: None

### **EDUC6011 CLASSROOM ASSESSMENT**

This course focus on the necessary knowledge of classroom assessment ranging from, but not limited to, validity and reliability, functions, forms, instruments, design of various assessment tools. Both traditional assessment methods such as multiple choices, fill-in-blanks, cloze measures, essays, etc, and alternative assessment methods such as portfolio, journals, etc, will be included. Important concepts such as formative Vs summative; high Vs low stake assessment will be covered. The importance of the coherence among instructional objectives, classroom teaching and assessment will be emphasized.

Pre-requisite: None

### **EDUC6012 INFORMATION TECHNOLOGY IN EDUCATION**

This course, aiming to enhance students' understanding of using information technology in teaching and learning, provide an overview of contemporary technology, with emphasis on technology relating to education in schools. It examines the current methodologies and issues in integrating different technologies in teaching and learning contexts.

Pre-requisite: None

### **EDUC6101 COUNSELING AND GUIDANCE**

This course aims to introduce school counseling theories and classroom management techniques. It covers basic counseling knowledge and skills to facilitate the personal growth of teachers and their students. Furthermore, the course encourages teachers to practise their counseling skills within their school settings.

Pre-requisite: None

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**EDUC6102 CURRICULUM AND PEDAGOGY (SUBJECT BASED)**

It aims to provide in-service teachers at secondary level with basic concepts and principles of curriculum and instruction. Topics include curriculum development and implementation, teaching principles and strategies, teaching evaluation, and classroom conditions that influence teaching and learning. This course features subject based characteristics. Students will be led to discuss the issues and problems related with these topics in their subjects (such as Chinese, English, mathematics, and science). And the connection between the theories of curriculum and pedagogy and subject based teaching practice will be highlighted.

Pre-requisite: None

**EDUC6201 CURRICULUM AND PEDAGOGY**

It aims to provide in-service teachers at primary level with basic concepts and principles of curriculum and instruction. Topics include curriculum development and implementation, teaching principles and strategies, teaching evaluation, and classroom conditions that influence teaching and learning. Students will be helped to link theories of curriculum and pedagogy with their teaching practice in setting objectives, selecting and organizing contents, and implementing and evaluating curriculum in various subjects they teach in primary schools.

Pre-requisite: None

**EDUC6202 SCHOOL COUNSELING AND GUIDANCE**

This course aims to introduce school counselling theories and classroom management techniques. It covers basic counselling knowledge and skills to facilitate the personal growth of teachers and their students. Furthermore, the course encourages teachers to practise their counselling skills within their school settings.

Pre-requisite: None

**EDUC6301 HEALTH AND CARE IN EARLY CHILDHOOD**

Childhood is the earliest, most vulnerable and difficult nursing stage and also the most important stage in our lives. This course will equip students with the knowledge and understanding of children's growth, health and care, the foundation of the pre-primary education field. It will introduce how to provide children with appropriate nutrition and how to handle their common diseases, injury and safety. Topics include principles of children's growth, their behavioural and emotional characteristics, analysis of the positive and negative factors and ways to provide a safe and healthy environment for growing children. Students can apply the theories and knowledge in kindergartens to promote health education and to work towards the goal of holistic health and care.

Pre-requisite: None

**EDUC6302 EARLY CHILDHOOD DEVELOPMENT**

The aim of this course is to instill into teachers, who work with 0 to 8-year-old children, a thorough understanding of the developmental changes at this stage of life, the role that genetics play in human development, as well as some common childhood disorders. Different theories of child development are introduced to provide students with an all-rounded knowledge of children's united growth which lays the foundation for effective teaching and learning.

Pre-requisite: None

**EDUC6303 INTEGRATED LEARNING**

This course will focus on the integrated learning approach to curriculum design and development for pre-schools and explore the meanings, functions, teaching processes, designs, practices and evaluations related to the integration education. Rather than stressing basic concepts and theoretical foundation, this course will emphasize the application of theories in practice, with the aim to train students to become effective teachers who can apply principles of integrated learning to lesson planning.

Pre-requisite: None



### **EDUC6501 EDUCATIONAL ADMINISTRATION**

This course allows students to understand the basic concepts of educational administration. Students will study and discuss Macao educational acts and decrees. They will also learn the basic theories related to educational administration, such as theories with regard to motivation, leadership, communication and organizational decision-making. Attempts will be made to make this course related to the educational reality in Macao.

Pre-requisite: None

### **EDUC6502 INTRODUCTION TO SPECIAL EDUCATION**

This course aims at providing students with knowledge, understanding and care of pupils with special needs so as to further their education professional knowledge and development. By means of different teaching activities, students will have better understanding of (1) definitions, characteristics and causes of pupils with various special needs; (2) educational emphases and needs of these pupils; (3) contemporary situations of special education in Macao, and skill-training and employment situations of teenagers; and (4) the latest trends in contemporary special education.

Pre-requisite: None

### **EDUC6503 EDUCATIONAL RESEARCH**

The main aim of this course is to enable a qualified teacher to use, understand, analyze and evaluate research outcomes. The course includes: (1) the basics of educational research, (2) structure and procedures of education research, (3) research variables, (4) hypotheses and topics, (5) literature review, (6) on-line search, (7) sampling, (8) questionnaires, (9) correlation analyses, (10) interviews, (11) case studies, (12) evaluation of research reports, (13) educational research ethics, etc.

Pre-requisite: None

### **EDUC6504 SOCIOLOGY OF EDUCATION**

This is an introductory course on the Sociology of Education. It provides a brief introduction to the basic sociological concepts and perspectives. By applying these concepts and perspectives, the course intends to let participants have a broad and profound understanding of Macao society and its educational system.

Pre-requisite: None

### **EDUC6505 EDUCATIONAL TECHNOLOGY IN EARLY CHILDHOOD SETTINGS**

This course aims at enhancing teacher trainees' understanding of various applications of educational technology, so as to empower them to use technology effectively in kindergartens. It provides an overview of the latest development of technology for teaching and learning, with an emphasis on its use with appropriate instructional designs in the early childhood education (ECE). To achieve this end, this course will examine how to integrate instructional methodology with contemporary educational technology within ECE learning contexts and how to fulfil the objectives of the ECE curriculum based on instructional models. After completion of the course, teacher trainees will be able to integrate educational technology in supporting young learners' development in different disciplinary areas, resolve issues arising in this process and take up related challenges with confidence and efficacy.

Pre-requisite: None

### **EDUC6506 ASSESSING YOUNG CHILDREN**

To enable students a comprehensive understanding of young children's learning and development, this course provides an overview of educational assessment and introduces the principles and practices of authentic assessment which is highly valued in early childhood education. It explains why and how infants and young children should be assessed, discusses the contexts for authentic assessments, illustrates multiple strategies for collecting information on children's learning and development, and highlights the importance of conducting systematic observations and recording in the information collecting process. Through this course, students will understand how to utilize assessment information in improving the

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curriculum and teaching quality and facilitating parent-school partnership. Assessment practices will be linked to the local curriculum guideline which also underpins authentic assessment as the principal means of assessing young children. Ethical issues in this area will also be discussed.

Pre-requisite: None

### **EDUC6507 PARENTAL EDUCATION AND INVOLVEMENT**

Family plays an important role in the child's upbringing. The course aims to explore how we, as teachers, can empower the parents to play a role in the positive development of the child. Emphasis is put on possibilities and strategies concerning the implementation of parent education and parental involvement in the local school context. Topics include: integrated approach to building staff-parent partnerships, family relationship and personal growth, disciplining methods and principles, parental ethics, development and implementation of parent education, and family-school collaboration.

Pre-requisite: None

### **EDUC6508 GUIDANCE AND COUNSELING IN EARLY CHILDHOOD**

This course aims at equipping students of early childhood education with the knowledge of guidance and counselling so that they are able to take up the role of teacher-counsellors. This course will introduce classical and contemporary theories in guidance and counselling and include five components to facilitate the united growth of young children: basic concepts of guidance and counselling, personal growth, personal and social education, problem behaviours in early childhood, and counselling techniques. Various approaches of working with families in guiding children's behaviours are also covered.

Pre-requisite: None

### **EDUC6509 INCLUSIVE EDUCATION**

This course aims at introducing students to the development, rationale and principles of inclusive education as a foundation of the field, and to the policy, general situation and resources with regard to inclusive education in Macao. The course provides guidelines on various elements of inclusive lessons and classes. The content includes child learning and classroom settings, programme and lesson planning, and assessment and classroom management of children with special needs or behavior problems. In addition, to guard students from workstress as future inclusive teachers, the course will help them develop observation and analysis skills to note differences among young children and to understand children with disabilities in the inclusive classroom. It will also provide students with opportunities to learn how to enrich learning environment with educational resources for special needs and how to work effectively with professional groups and parents.

Pre-requisite: None

### **EDUC7001 RESEARCH METHODS IN ENGLISH LANGUAGE EDUCATION**

This course introduces students to the research designs, approaches, and data collection techniques applicable to English language education researchers. Students are led through the process of designing a pilot study, formulating research questions, writing a comprehensive research proposal, and executing the collection, analysis, and interpretation of data. The culmination of these efforts will yield a fully-fledged, piloted research project, providing students with hands-on experience in conducting English language education research.

Pre-requisite: None

### **EDUC7050 CURRENT ISSUES IN EDUCATION**

This course provides students with insights into the nature of education as a profession and the links between theoretical developments and educational practice. It covers key ideas and contemporary research in foundational themes in education, including educational psychology, early childhood education and child development, curriculum and instruction, educational technology, physical education and sport studies, educational administration, and related fields. Students will have the opportunity to interact with leading experts across subfields of education,

and demonstrate an awareness of current issues in these areas. Through thorough and conscientious participation, students will be able to articulate trends in current issues in education, identify the significance of educational research, engage in debate for controversial issues in an empirically grounded and theoretically sophisticated manner, and express informed opinions in writing.

Pre-requisite: None

### **EDUC7051 QUALITATIVE METHODS, DATA MANAGEMENT, AND ANALYSIS IN EDUCATIONAL RESEARCH**

This course is designed to provide students with comprehensive training in qualitative research methods as applied to educational contexts. Through a combination of lectures and hands-on activities, students will develop practical skills in research design, data management, and analytic techniques specific to qualitative research in education. Emphasis will be placed on the use of specialized software for data management and analysis.

Pre-requisite: None

### **EDUC7052 QUANTITATIVE METHODS, DATA MANAGEMENT, AND ANALYSIS IN EDUCATIONAL RESEARCH**

This course is designed to provide students with comprehensive training in quantitative research methods as applied to educational contexts. Through a combination of lectures and hands-on activities, students will develop practical skills in research design, data management, and analytic techniques specific to quantitative research in education. Emphasis will be placed on the use of specialized software for data management and analysis.

Pre-requisite: None

### **EDUC7053 ACTION RESEARCH**

This course aims to enhance learners' comprehension of the fundamental ideas, concepts and methodologies inherent in action research. It provides learners with the skills necessary to formulate effective action research designs, covering essential topics such as the overview, development, and design of action research, as well as implementation methods. The exploration of evidence-based strategies encourages learners to cultivate a positive approach to action research, thereby contributing to their professional growth.

Pre-requisite: None

### **EDUC7101 FOUNDATIONS OF CURRICULUM AND INSTRUCTION**

This course aims to provide an overview on the principles and theories of curriculum and instruction. The introduction of these theories and principles offers students a broad perspective on fundamental curriculum questions, encompassing the purposes, content, design, and structure of educational programmes, as well as the theories of learning and teaching and the relationship between the two.

Pre-requisite: None

### **EDUC7102 CURRICULUM DESIGN AND IMPLEMENTATION**

This course involves the examination of pertinent literature to delve into various aspects of curriculum, including its significance, characteristics, and foundations. It also encompasses the process of curriculum design, covering models, goals, content, and organization, as well as curriculum implementation and instruction, along with considerations for curriculum reform and evaluation. The aim is for students to attain proficiency in fundamental concepts of curriculum design, implementation, and reform, and apply this knowledge to create an actual curriculum.

Pre-requisite: None

### **EDUC7103 EVALUATION OF CURRICULUM, INSTRUCTION AND STUDENT PERFORMANCE**

This course aims to empower students with knowledge, strategies and techniques essential for evaluating curricula, instruction, and student performance. It involves a critical analysis of the assumptions, strengths, and weaknesses associated with various types of evaluation. Students

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will engage with evaluation scenarios specific to particular curricula, instructional methods, and student populations. Students will develop assessment tools tailored to a particular teaching context with special emphasis on authentic assessment, performance assessment, portfolio assessment, and self/peer assessment.

Pre-requisite: None

### **EDUC7151 SEMINAR IN SUBJECT-BASED CURRICULAR ISSUES**

This seminar course is designed to explore current issues and challenges related to subject-based curriculum development and implementation. Students will analyze and evaluate various curriculum models and approaches and consider the ways in which they align with educational goals and standards. The course will focus on specific subject areas (i.e., mathematics, science, English language, Chinese language, educational technology, social studies, physical education, music, and art), and will explore the ways in which these subjects are taught and assessed in schools. Through readings, discussions, and research, students will develop an understanding of the curriculum development process and the role of subject-based curriculum in shaping educational experiences for students. Additionally, students will have the opportunity to examine and analyze the curriculum materials and instruction in the subject area of their choosing.

Pre-requisite: None

### **EDUC7155 CHINESE PEDAGOGY**

This course serves as an introductory exploration into Chinese pedagogy, providing students with a comprehensive understanding of the art of teaching and learning Chinese. Encompassing a broad spectrum of topics, the course incorporates the latest theories, strategies, and assessment methods crucial for delivering impactful Chinese instruction. By engaging in thoughtful discussions and synthesizing current literature, students will have the opportunity to craft and deliver Chinese lessons that actively apply contemporary teaching strategies and methods.

Pre-requisite: None

### **EDUC7156 SECOND LANGUAGE LEARNING & TEACHING**

This graduate level course is designed to provide students with a comprehensive understanding of second language learning and teaching. The course will cover the theoretical foundations of second language acquisition, as well as practical strategies for second language instruction. Topics will include the role of linguistic and cognitive factors in second language development, the impact of culture and context on second language learning, and the use of technology and authentic materials in second language classrooms. Through readings, discussions, and hands-on activities, students will gain knowledge and skills that will enable them to design and implement effective second language instruction in a variety of settings.

Pre-requisite: None

### **EDUC7163 CURRICULUM DESIGN IN SCIENCE EDUCATION**

This graduate-level course explores the analysis, design, and evaluation of science curricula. Beginning with an overview of theoretical frameworks and models, it delves into historical and cultural contexts shaping science curricula. Students apply these frameworks for critical, context-dependent analysis. The course progresses to principles and strategies for developing purposeful science curricula, encouraging a designer's perspective. Emphasizing practical application, students develop a science curriculum unit aligning with local standards. The course also introduces the design-based research paradigm, aiding students in understanding the evaluation and enhancement of science curricula through implementation.

Pre-requisite: None

### **EDUC7164 SCIENCE PEDAGOGY**

This graduate-level course explores theories and practices in science teaching. Starting with an overview of diverse perspectives on scientific literacy, the course first addresses pedagogies for its key aspects: conceptual development, scientific practices, and epistemology.

Subsequently, it also covers some evolving pedagogical ideas in science education. The course presents students with conflicting theories, encouraging them to think independently and justify their positions. Through simulations, experiential activities, and case analyses, the course builds connections between theoretical thinking and pedagogical approaches. Learning outcomes encompass enhanced skills in pedagogical research and the application of theory-guided pedagogical approaches in designing and implementing science learning activities. Pre-requisite: None

#### **EDUC7174 STUDIES ON MATHEMATICS CURRICULUM AND TEXTBOOKS**

This course aims to equip students with knowledge about the historical development of mathematics curriculum, current ideas and philosophy of mathematics curriculum reform around the world with a specific emphasis on mathematical core competences, the coherent curriculum/textbook structure of key topics in school mathematics, basic skills to do textbook analysis and the ability to identify important, difficult and key points for learning and teaching, and the skills to develop effective instructional resources to meet various needs accordingly. Modern mathematics education topics such as mathematical modelling, problem posing and mathematical culture will also be addressed to improve students' understanding to these topics. Pre-requisite: None

#### **EDUC7176 INSTRUCTIONAL DESIGN AND ASSESSMENT IN MATHEMATICS**

This course aims to equip students with modern theories and ideas for mathematics instruction, to develop their skills to make effective mathematics instruction design with ICT effectively and to develop ability to design assessment for various mathematics topics. The key elements of mathematics instructional design, formative-and-summative assessment in important school mathematics topics will be examined and developed jointly. Students will be further required to critically and creatively address how these elements and knowledge can be combined systematically to design effective mathematics lessons, implement in real classrooms, reflect on the requirements and philosophy of current mathematics curriculum reform, and make improvement on their design. Pre-requisite: None

#### **EDUC7179 CURRICULUM DESIGN IN ENGLISH LANGUAGE EDUCATION**

This course is designed to acquaint students with the strategies and principles of curriculum design in English language education. It aims to help students develop an understanding of the process of second language curriculum development in general, and of second language course design in particular. Students will have opportunities to engage in critical reflection on both theoretical and practical issues in second language curriculum design as well as gain practical experience in designing English language learning materials relevant to specific student populations. Pre-requisite: None

#### **EDUC7180 PEDAGOGICAL GRAMMAR FOR ENGLISH LANGUAGE TEACHERS**

This graduate-level pedagogical grammar course provides opportunities for you to develop more profound grammatical knowledge of the English language, as well as pedagogical knowledge of innovative strategies and methodologies in teaching grammar in future ESL/EFL classrooms. Specific attention focuses on syntactical generative process of sentence structures, structures of clauses and phrases, grammar teaching approaches and techniques, evaluation of existing grammar resources and adaptation of these materials to better meet students' learning needs. Pre-requisite: None

#### **EDUC7183 SECOND LANGUAGE VOCABULARY ACQUISITION**

This course provides opportunities to study about vocabulary in second language learning and teaching, including questions regarding how to select vocabulary for direct instruction, factors that influence incidental acquisition, strategies for deliberate learning and teaching, and assessment of vocabulary knowledge. A survey of pivotal published second language

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vocabulary acquisition research is provided for the purpose of evaluating the quality of the research and considering its practical implications for teaching.

Pre-requisite: None

#### **EDUC7184 CURRICULUM DESIGN IN CHINESE EDUCATION**

This course delves into the intricacies of designing Chinese curriculum, with the goal of enriching students' understanding of curriculum design and teaching methodologies. Emphasizing the cultivation of skills and fostering research interests in Chinese curriculum design and implementation, the course is designed to elevate students' capabilities in developing and refining Chinese curricula within educational institutions. By introducing both the theories and practical aspects of Chinese curriculum design, this course aims to empower students to contribute to the ongoing advancement of Chinese education in schools.

Pre-requisite: None

#### **EDUC7190 THESIS**

This course provides an opportunity for students to do research work in relevant fields with the aim of strengthening their abilities of conducting empirical research under supervision. Academic norms should be abided by and creative scholarship and originality are required.

#### **EDUC7201 THEORIES OF EDUCATIONAL ADMINISTRATION**

This course addresses concepts, theories and current developments in educational administration. Educational organizations and their leadership, motivation, communication and decision making, as well as their development and effectiveness are examined.

Pre-requisite: None

#### **EDUC7202 EDUCATIONAL LAW AND POLICY ANALYSIS**

This course addresses Educational laws, regulations and policies. The impact of these laws, regulations and policies upon schools are analysed and examined. Students are encouraged to make suggestions regarding the ways in which some Macau educational laws and policies could be revised.

Pre-requisite: None

#### **EDUC7203 EDUCATION AND DEVELOPMENT**

This course emphasizes on application of theories in Social Sciences to education and socio-economic development. Issues of discussion include: human capital theory, equality of opportunities, modernization, dependency theory, cultural imperialism, integration of the capitalist world system, and postmodernism.

Pre-requisite: None

#### **EDUC7251 ORGANIZATIONAL CHANGE AND DEVELOPMENT IN SCHOOLS**

This course is a critical analysis of theoretical and practical aspects of organizational change and development in education various perspectives and strategies innovated and used by educational institutions to cope with organizational change and enhance development will be introduced. In-depth case analysis will be provided to illustrate applications of strategies of school effectiveness, school-based management, and organizational innovation.

Pre-requisite: None

#### **EDUC7302 COGNITION AND LEARNING IN THE EARLY YEARS**

This course will provide students with an in-depth understanding of children's cognitive development and its implications for learning. It will encompass various topics including brain development, perception, memory, language, concept learning, problem solving, and social cognition. Additionally, the course will explore the roles of genetic and environmental factors in shaping children's brain and cognitive development and origins of learning disorders.

Pre-requisite: None

**EDUC7303 CHILD PLAY STUDIES**

The benefits of play have been associated with improvements in areas such as exploration, creativity, parent-child bonds, and healthy child development. This course encompasses a range of international perspectives on play, including the diverse interpretations, the philosophical rationales underpinning play, and the various play practices. Specifically, it will explore contemporary approaches and research methods for understanding children's play, debates surrounding play as curriculum and/or approach, issues pertaining to play advocacy and policy-making, as well as the potential for promoting culturally-appropriate play practices worldwide.

Pre-requisite: None

**EDUC7304 EARLY CHILDHOOD PROGRAM QUALITY EVALUATION**

This course delves into the theories, techniques, trends, and issues central to evaluating programme quality in early childhood education and care (ECEC). Students will develop a profound understanding of what constitutes a high-quality ECEC programme and its far-reaching implications for children's development and learning. The course will also spotlight the assessment of instruments and methods employed in ECEC programme quality rating and improvement systems. Moreover, students will actively engage in the practice of (1) conducting quality assessments of local ECEC programmes, (2) reporting evaluation results, and (3) providing constructive feedback to classroom teachers for continuous quality enhancement.

Pre-requisite: None

**EDUC7354 CHILD AND FAMILY EDUCATION**

This course is designed to help students develop an understanding of key theories and principles related to family education and to link such knowledge to practical issues when dealing with different types of families as an early childhood educator. Students will delve into topics such as effective parenting strategies, how parent-child relationship, and marital relationship influence child development as a dynamic family system and the communication strategies with families. Additionally, the course will address the role of ethical conduct in fostering stronger familial connections. Students will also learn to leverage community-based resources effectively to establish and enhance the school-family-community partnership.

Pre-requisite: None

**EDUC7401 EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT**

Students will gain an introductory understanding of the fundamental concepts, principles, and techniques in educational and psychological measurement. The course encompasses various topics, including reliability, validity, scale evaluation, and test bias. Its objective is to furnish students with a solid foundation for evaluating scales in research and practical applications.

Pre-requisite: None

**EDUC7402 PSYCHOLOGY OF LEARNING**

This course introduces psychological theories pertinent to the learning of students, and current views of how people learn. Particular focus is placed on linking theories to classroom situations. Topics included are: behavioristic, information- processing, constructivist, and humanistic theories of learning.

Pre-requisite: None

**EDUC7403 ADVANCED DEVELOPMENTAL PSYCHOLOGY**

This course delves into a comprehensive exploration of theories, research, and key concepts in the field of developmental psychology. Building upon foundational knowledge, this advanced-level course offers an in-depth analysis of child development, including cognitive, emotional, and social aspects. Students will critically examine current research findings and theories while exploring the practical applications of developmental psychology in various contexts.

Pre-requisite: None

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### **EDUC7455 SUPPORTING STUDENTS WITH EMOTIONAL AND BEHAVIORAL DIFFICULTIES**

Emotional and behavioral difficulties can significantly impact a student's ability to engage in the learning process, maintain positive relationships, and reach their full potential. This course aims to deepen participants' understanding of the underlying causes and manifestations of these difficulties, while offering practical approaches to help students develop emotional regulation, selfmanagement, and social skills. Throughout the course, participants will explore various theoretical frameworks and evidence-based practices to identify and respond to emotional and behavioral difficulties in students of different ages and diverse backgrounds.

Pre-requisite: None

### **EDUC7501 ADVANCED SPORT AND EXERCISE PSYCHOLOGY MEASUREMENT**

This course is designed to be beneficial for educators in physical education, coaches, and health educators. It equips students with a theoretical foundation in athletic performance and exercise behavior, establishing a knowledge base crucial for sport participation. This course is structured around three fundamental perspectives. The initial segment emphasizes the core concepts of sport and exercise psychology, encompassing its scope and significance in human development. The subsequent segment delves into topics concerning the relationship to mental well-being and the development of life quality. The final segment engages with research endeavors in sport and exercise psychology. It incorporates ideas derived from behavioral science and psychological interventions that facilitate optimal performance and increase engagement in leisure-time physical activity.

Pre-requisite: None

### **EDUC7502 PHYSICAL EDUCATION CURRICULUM AND PEDAGOGY**

This course offers students an opportunity to delve into the socially constructed nature of schooling, curriculum, teaching, and learning within the realm of physical education and sport studies. It examines contemporary issues related to educators' roles, critically evaluating recent research and theories that illuminate the pivotal role of teachers in fostering students' learning. The course provides an in-depth examination of key topics related to curriculum models and pedagogical approaches in physical education and sports. Additionally, it explores practical instructional strategies to adopt effective teaching, learning, and assessment within educational settings.

Pre-requisite: None

### **EDUC7503 ADVANCED EXERCISE PHYSIOLOGY**

This course empowers students to critically analyze and apply the latest insights in exercise physiology to enhance their contributions to the field. This course delves into cutting-edge theories and recent advancements in the field of exercise physiology. The lectures encompass topics such as the intricate interplay of muscular and neurological mechanisms in movement control, cardiorespiratory dynamics in response to exercise, and the physiological adaptations induced by exercise training. Additionally, the course covers the methods and key parameters for assessing physiology during exercise, as well as the challenges posed by extreme environments. By engaging with this course, students will refine their skills in both instructing and conducting rigorous scientific research pertaining to physical activity and athletic training.

Pre-requisite: None

### **EDUC7551 COMPARATIVE PHYSICAL EDUCATION AND SPORT**

This course delves into the existing programmes of physical education and sports development across diverse countries worldwide. It scrutinizes the underlying motives driving their establishment, as well as the commonalities and distinctions among them. Students will become involved in discussions on the political, economic, and philosophical implications influencing the evolution of physical education and sports initiatives. Notable topics to be covered include amateurism, apartheid, issues of violence, and the dynamics of the Olympic movement.

Pre-requisite: None



### **EDUC7601 THEORIES IN COUNSELING PROFESSION**

This course covers the theoretical frameworks that underpin the practice of counselling. Through critical analysis, case studies, and interactive discussions, students gain a nuanced understanding of how these theories inform therapeutic approaches, guide interventions, and shape the client-counsellor relationship.

Pre-requisite: None

### **EDUC7603 ADVANCED SCHOOL COUNSELING SKILLS**

This course is designed to equip future school counsellors with the skills and knowledge needed to excel in educational settings. Building upon foundational counselling principles, students enrolled in this course will focus on the unique dynamics of school environments. Through experiential learning, case studies, and role-play exercises, students will develop a nuanced understanding of the challenges faced by primary and secondary students, families, and educators. This course aims to empower aspiring school counsellors with the expertise required to foster academic success, social-emotional well-being, and personal growth in primary and secondary students.

Pre-requisite: None

### **EDUC7651 CAREER COUNSELING IN SCHOOL ENVIRONMENTS**

This course is designed to equip school counsellors with the skills and expertise needed to guide students through the dynamic landscape of career exploration and planning. Grounded in the context of educational environments, the course provides the opportunity to gain specialized training in helping students discover their strengths, interests, and aspirations. Through interactive workshops, assessments, and experiential learning, students will develop the skills required to empower students in making informed and meaningful career choices.

Pre-requisite: None

### **EDUC7701 TEACHER DEVELOPMENT IN TESOL**

In this course, participants will develop a comprehensive and situated understanding about various aspects of language teachers' professional lives, learn about important and updated approaches and strategies about language teacher education, as well as explore how to promote and sustain their professional development as language teachers. Through critical reading and discussion based on assigned materials, video clips and critical cases, and by reflecting on their previous/ongoing learning and teaching experiences, participants will examine their professional values, beliefs and identities and develop professional knowledge and competence to seek and sustain their continuing development in school environments.

Pre-requisite: None

### **EDUC7702 TEACHING READING AND WRITING**

This course provides opportunities to explore various perspectives on theory, research, and pedagogical applications in second language reading and writing. The course aims to equip students with strategies to help second language learners develop the skills necessary for effective reading and writing. Topics include the nature of L2 reading and writing, approaches to teaching L2 reading and writing, L2 reading and writing processes, features of L2 writers' texts, beliefs and attitudes of L2 readers and writers, feedback on L2 writing, collaborative writing, and assessing reading and writing skills. Course participants will be helped to make connections between theory and practice and understand key issues that underlie second language reading and writing, and acquire skills and techniques for planning, teaching and assessing second language reading and writing.

Pre-requisite: None

### **EDUC7703 LANGUAGE TESTING AND ASSESSMENT**

This course has been designed to suit the needs of MA students in English education to develop a comprehensive and situated understanding of the principles and practices of language testing and assessment. The aims of this course are to highlight key issues in language testing and assessment, review the characteristics of good language tests and provide guidance for

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constructing valid and reliable language tests and developing appropriate classroom assessment strategies. Both large-scale tests and classroom-based assessment are addressed in this course, covering topics such as teaching and testing, kinds of tests and testing, reliability, validity, washback effect, formative assessment, assessment of/for/as learning, and so forth.

Pre-requisite: None

#### **EDUC7704 TEACHING LISTENING AND SPEAKING**

This course examines the construct of listening and speaking by considering theories about spoken English and its learning and use in second language contexts. Through a critical reading of research and scholarly discussions, participants will learn about listening and speaking development from cognitive, social, and discourse perspectives. This knowledge will be applied in evaluating and improving current practices in the teaching and assessment of listening and speaking competence in second language classrooms as well as in understanding the role of listening and speaking in learning at home and in school.

Pre-requisite: None

#### **EDUC7705 LANGUAGE AND LINGUISTICS**

This course introduces key concepts and approaches to the study of language and linguistics. It provides an overview, with basic terminology, of the major subfields of linguistics, investigating the nature, history, and structure of language, and how language relates to the mind, society, and education. It provides the basis of investigation in subsequent courses. Students are encouraged to reflect on their own language experience and apply the theories covered in the course to their own linguistic context.

Pre-requisite: None

#### **EDUC7751 UNDERSTANDING SECOND LANGUAGE ACQUISITION**

The purpose of this course is to provide an overview of the field of second language acquisition to help students understand how second or foreign languages are acquired or learned. Students will read about major theories of SLA and learn the individual, social, and cognitive factors and processes that affect the acquisition, development, and use of a second or additional language. Students will also learn to carry out interlanguage data collection and engage in different types of data analysis to inform pedagogy and make connections between abstract knowledge of SLA and practical applications of such knowledge in second/foreign language classrooms.

Pre-requisite: None

#### **EDUC7752 SPECIAL TOPICS IN TESOL**

This course is designed to offer visiting scholars, or existing staff, the opportunity to offer postgraduate level students courses in their particular area of specialization. The topic and content of the courses will vary from year to year depending on the availability of expert staff. Examples of specialized topics that may be offered include teaching and assessing specific language skills, teaching English for academic or specific purposes, technology-supported language teaching and learning, among other relevant topics.

Pre-requisite: None

#### **EDUC7753 SOCIAL PERSPECTIVES ON LANGUAGE USE AND BILINGUAL EDUCATION**

This course examines the sociolinguistic, social psychological and sociological aspects of language use and bi/multilingual education. The course studies the ways in which groups of people use language, and looks into the close link between languages and the social context in which they are used. Topics such as aspects of language variation and dialects, language and power, language policy and language planning are covered. Bi/multilingualism and bi/multilingual education in different contexts are discussed, drawing implications for the teaching of English as a foreign language in Macao and the Greater Bay Area, and similar EFL

contexts.

Pre-requisite: None

### **EDUC7754 LEARNING AND TEACHING OF ENGLISH PHONETICS AND PHONICS**

This course examines the sound systems of the major varieties of English and reviews methods used in teaching and improving pronunciation. Attention to the difficulties in English pronunciation encountered by learners of English in Macao and the Chinese context is given along with a review of targeted instructional techniques for helping students overcome these difficulties. Specifically, the course helps students to define achievable objectives for pronunciation teaching, diagnose learners' pronunciation problems and develop a range of techniques to increase students' awareness of, and concern for, the intelligibility of their spoken English.

Pre-requisite: None

### **EDUC7755 WRITTEN AND SPOKEN DISCOURSE FOR ENGLISH LANGUAGE TEACHING**

This course aims to help students to develop an understanding of the relationship between linguistic structures and functional purposes of language use in classroom contexts. It focuses on analysing discourse features in English as second or foreign language classroom contexts. Through analysing the linguistic and functional characteristics of teacher-learner classroom talk and its sequential structures, students will explore the dynamics and potential of classroom interactions, and their impacts on pedagogical effectiveness in a diversity of classroom contexts relevant to students with different learning needs and backgrounds.

Pre-requisite: None

### **EDUC7798 PROJECT REPORT**

Students are provided with an opportunity to build on interests developed in TESOL through undertaking an individual project normally of 8,000 words by independent study. Examples of possible projects are a critical literature review of an issue or topic of significance in TESOL, a small-scale research project, a relevant professional development activity, a reflection on language curriculum and materials development in a particular instructional context, a teaching practicum report, or any other project related to English language teaching practice. Each student will be assigned an academic supervisor that supports their independent study. For participants who might be aspiring to transition into a doctoral career, they can choose to conduct a TESOL research project and write a longer project report under the supervision of the programme instructors.

Pre-requisite: None

### **EDUC7851 DESIGN OF DIGITAL LEARNING ENVIRONMENTS**

This course immerses students in theories, research, and practical methodologies pivotal for crafting innovative multimedia, online, and blended learning environments. Emphasizing a hands-on approach, it delves into the dynamic intersection of educational technology, multimedia elements, and instructional design theories. Students engage in practical exercises to apply these concepts, honing skills for designing and implementing impactful digital learning experiences.

Pre-requisite: None

### **EDUC7852 MOBILE LEARNING APPLICATIONS DESIGN AND DEVELOPMENT**

This course navigates the landscape of mobile technology in education, equipping students with fundamental skills in designing and developing mobile learning applications. Integrating computational thinking and block-based programming, students acquire the ability to craft impactful learning tools effortlessly, bypassing the complexities of programming language syntax. Upon completion, students will possess a comprehensive understanding of the core principles governing mobile learning and application design, enabling them to innovate and create transformative educational applications.

Pre-requisite: None

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**EDUC7853 DIGITAL GAMES AND LEARNING IN EDUCATIONAL SETTINGS**

This course explores the fusion of digital gaming and education, focusing on hands-on engagement in designing, implementing, and evaluating game-based learning modules. Students uncover the vast potential of digital games in fostering robust learning outcomes while navigating challenges within traditional educational paradigms. Students actively engage in gaming experiences, exploring various gaming environments to deepen their understanding of how gaming intersects with learning. Through collaborative group projects, students undertake research spanning diverse facets of game-based learning, leading to a research project blending theoretical insights with empirical evidence from practical applications.

Pre-requisite: None

**EDUC7854 EMERGING TECHNOLOGIES FOR LEARNING AND ASSESSMENT**

This course empowers students to lead the charge in educational innovation by delving into the transformative capabilities of emerging technologies for learning and assessment. Students actively engage with emerging technologies for learning and assessment, evaluating their efficacy and determining their suitability for diverse learning environments. They develop implementation strategies specific to these technologies, gaining a nuanced understanding through immersive, project-based learning experiences. Students pilot their innovative ideas within practice or research-based educational contexts, fostering both critical evaluation and practical application of these technologies for learning and assessment.

Pre-requisite: None

**EDUC8001 QUALITATIVE RESEARCH METHODS**

This course intends to provide graduate students with systematic training about qualitative research methodology in education. Course participants will learn about different approaches to qualitative research and their epistemological underpinnings, the social theoretical paradigms informing different approaches, ethical considerations and issues of reflexivity/positionality/legitimacy, and the methodological nuts-and-bolts in conducting qualitative inquiry.

Pre-requisite(s): Introducing Qualitative Research, or equivalent; or based on instructor's consent.

**EDUC8002 APPLICATIONS OF ADVANCED QUANTITATIVE METHODS**

This course provides coverage of some widely-used advanced quantitative methods in education and other social and behavioral sciences. It provides the analytical foundation for doctoral students in using these more advanced analytical approaches in evidencebased empirical research.

Pre-requisite(s): Introducing Quantitative Research, or equivalent; or based on instructor's consent.

**EDUC8003 RESEARCH ETHICS**

This course is intended to provide a foundation for PhD students to think critically about what it means to be an ethical researcher. During this course students will critically analyse research ethics topics and case studies, and learn how to conduct a research project from an ethical standpoint. By understanding and reflecting upon research ethics-specific issues, students will assimilate the importance of scientific integrity while acquiring key reasoning skills that will significantly increase the scientific quality and impact of their future research.

Pre-requisite: None

**EDUC8004 RESEARCH WRITING**

This course aims at introducing to PhD students an overall view of understanding and conducting educational research in a scholarly way. Critical issues are discussed in this module, including conceptualization, operationalization, measurement and others in order to lay a solid foundation for junior researchers in developing their research career.

Pre-requisite: None

### **EDUC8005 INTRODUCTION TO EDUCATIONAL RESEARCH**

This course aims at establishing a pragmatic foundation for doctoral students by seeing the strengths and weaknesses of various methods. It is designed for first-year doctoral students who pursue social science research.

Pre-requisite: None

### **EDUC8006 INTRODUCING QUALITATIVE RESEARCH**

This course is designed for students with little or no prior experience with qualitative research methods. The aim of the course is to familiarize students with various aspects of qualitative research strategies, as practiced by educational researchers. The course, conducted in the form of a seminar, covers a wide range of issues to help students to design, conduct, evaluate, and reflect upon qualitative research work. This introductory course can serve as a prerequisite, but not necessary if students already have prior knowledge in the subject matter, to the "Qualitative Research Methods" course.

Pre-requisite: None

### **EDUC8007 INTRODUCING QUANTITATIVE RESEARCH**

This course is designed for students with little or no prior experience with quantitative research methods. This course provides an introduction to quantitative methods used in educational research, particularly descriptive statistics and elementary inferential statistics. Topics include formulating research questions, research design, sampling, descriptive analysis, bivariate relationships, regression, analysis of variance etc. This course is required for all students enrolled in the doctoral programme of FED.

Pre-requisite: None

### **EDUC8008 QUALITATIVE RESEARCH DESIGN**

This course will present qualitative research objectives, qualitative research characteristics, and commonly used qualitative research strategies for Year-1 PhD students. This course aims to promote PhD students' ability to understand, interpret and apply qualitative approaches in authentic research contexts and prepare them for learning advanced qualitative research at a later stage.

Pre-requisite: None

### **EDUC8009 DESCRIPTIVE AND INFERENTIAL STATISTICS**

This is an introductory course in descriptive and inferential statistics. The focus of the course is on basic quantitative research design as well as the use and interpretation of statistical procedures used with quantitative methods of research and evaluation. Topics covered include types of research design in quantitative research, descriptive statistics, measures of variability, procedures for evaluating the reliability and validity of tests and surveys, and correlation. This course does not rely heavily on mathematical skills. The statistical analysis software (e.g., SPSS) will be used in this course.

Pre-requisite: None

### **EDUC8100 EDUCATIONAL LEADERSHIP AND POLICY ANALYSIS**

The making and analysis of education policy has become more complex in the 21<sup>st</sup> Century as a result of political, economic and cultural changes to education. Thus, the goals of this course are to provide participants a critical awareness of issues, challenges and global transnational policies facing leaders in education in the regional and internationally during times of fervent change. The course design is structured to respond to the needs of future/potential/current leaders from all sectors and across all levels of education. This course will enable participants to examine concerned education issues and policy through the lens of educational leadership. Additionally, this course also examines the theoretical and methodological approaches to be considered in studying policy in a regional as well as a global context. Topics will include social justice and equity issues, for instance, gender; standards and accountability; models of

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governance, and the legal and the institutional framework of governance across the three educational levels.

Pre-requisite: None

### **EDUC8101 ORGANIZATION AND LEADERSHIP: FROM THEORIES TO PRACTICES**

This course is designed to promote reflective skills of educational professionals in the application of theoretical knowledge to address complex problems and make informed decisions. By familiarizing current and aspiring educational leaders with theoretical assumptions, limitations and practical implications of different organization and leadership models, learners should be able to apply their knowledge to develop creative strategic approaches to problem-solving and decision-making in applied settings. It is the objective of this course to help contemporary school leaders develop as effective and reflective leaders.

Pre-requisite: None

### **EDUC8102 RESEARCH METHODS IN EDUCATION**

The purpose of this course is to provide an introduction to a variety of research approaches and procedures common in the field of education. Conceptual, procedural and analytical issues from a wide variety of areas will be covered. Students will develop a good awareness of the range of methods that may be applied to different types of research and the guidelines to be used in selecting a set of appropriate research methods. This course will become a primary mechanism by which students develop a broad sense of the field of education and the use such knowledge to identify possible research topics.

Pre-requisite: None

### **EDUC8103 ORGANIZING FOR LEARNING**

Changes in educational technology and neuroscience are dramatically affecting the way students learn and the way schools are organized. The first part of this course is designed for K–12 educational leaders who want to initiate and implement technological change at the district and regional levels. The second part of this course will integrate research from neuroscience to transform the school into a learning organization. By integrating the latest technologies and instructional design principles, students can prepare to develop and lead technology-supported solutions to learning issues in the K–12 classroom, and leadership challenges in K-12 school settings.

Pre-requisite: None

### **EDUC8104 DATA AND DECISION**

Decision-making in schools involves the systematic collection and analysis of data of different forms on the design, implementation, and the effectiveness of programmes or projects. This course will provide an overview of various perspectives and approaches to educational evaluation. Major theories and analytical tools will be discussed. Students will be given the opportunity to critically examine these different approaches to answer questions about classroom projects, educational policy and programmes. Students have the chance to apply the theories covered in the course through case study analyses. Students gain an understanding of theories, applications, and approaches within the context of formal programme evaluation.

Pre-requisite: None

### **EDUC8105 COMPARATIVE AND INTERNATIONAL EDUCATION**

The comparative perspective has been an important lens through which educators understand our own education practices. This course aims to analyze different education systems around the world and introduce students to new education reforms and innovation in different countries. Students will be introduced to the new thinking of school organization and reflect upon existing practices. In the course, students will discuss diverse issues such as equity, achievement, marketization, cultural influence with cross-country comparisons of regulatory frameworks, and the role of culture.

Pre-requisite: None

**EDUC8106 RESEARCH WRITING AND ETHICS**

This course has been designed to suit the needs of doctoral students conducting educational research. The course aims to develop and sharpen doctoral students' academic and professional writing skills and strategies in Chinese and English, and build their proficiency and confidence as

academic writers. Students will be equipped with the genre structure of research writing (e.g., introduction, literature review and discussion) and learn how to report empirical research in research articles and theses/dissertations.

Pre-requisite: None

**EDUC8107 SPECIAL TOPICS SEMINAR**

This seminar is a mixture of various topics that are relevant to school leaders. Each topic will be made up of a two-day workshop with experts from different fields inside and outside UM. Students will be divided into groups to discuss, evaluate, and present their group work as the assessment. Example topics include, but are not limited to: resource management in K-12, school case study, crisis management and law in education, change and development for educational institutions, values and ethics for school leaders, school governance and inter-systems relations, etc. Each student will attend at least four such seminars and produce a group report.

Pre-requisite: None

**EDUC8108 PRACTICE IN ACTION**

This course in the first of practicum series that aims to provide field experience to students to understand the world of educational practitioners. Students will inquire and discover issues by interviewing, observing, engaging in field research, or other appropriate means. Students will meet with and eventually embed themselves into organizations with key educational leaders from and throughout China. Alternatively, for students who already work in a leadership position, FED faculty members will follow and observe their work during the field experience. Each student will produce a report as an assessment.

Pre-requisite: None

**EDUC8109 INDEPENDENT STUDY**

This course is the second of practicum series that aims to provide field experience to students with an aim to understand the world of educational practitioners. The aim of the course is to guide students to disseminate their research and observation results through presentation, policy briefs, and/or practitioner journal publications to making a meaningful contribution to practice and/or policy issues. Student will work with a supervisor on a research topic of choice. This course provides meaningful pre-thesis research experience that would prepare the student for more sophisticated research.

Pre-requisite: None

**EDUC8199 DOCTORAL THESIS**

This is the most significant learning experience of the programme. It is designed for EdD students to apply theories and experience learned in the courses and to independently conduct an applied research project examining an educational issue. Students will demonstrate their expertise in on a chosen topic and provides an intellectual contribution to the practice and educational leadership and management.

**EDUC8999 DOCTORAL THESIS (Ph.D.)**

This course deals with both the theoretical and practical aspects of designing dissertation research and successfully defending the design in a proposal hearing. The purpose of the course is to assist students through the doctoral proposal and dissertation writing processes.

Prerequisite: None

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### **HSCI1002 INTRODUCTION TO BIOLOGICAL SCIENCES**

This course covers the fundamental aspects or principles of biological and biomedical sciences, and topics include: basic units of life, genetic basis of life, evolution and biodiversity, development and function, and ecology and environment. Although all three domains or five kingdoms of life will be covered, the course will focus more on animals and humans.

Pre-requisite: None

### **HSCI1003 GENERAL AND CLINICAL BIOCHEMISTRY**

This course introduces the molecular basis of biological processes through the logic of chemistry. Topics covered include the structure and function of biomolecules, biochemistry techniques, basic metabolic pathways, and a brief introduction to the biochemical bases of relevant disease states.

Pre-requisite: None

### **HSCI2000 CELL AND MOLECULAR BIOLOGY**

This course aims to provide an introduction to the principles of modern cell and molecular biology, and build a foundation for students to initiate and develop the process of inquiry-based learning and discovery in biology and medical sciences. The course discusses fundamental molecular biology of the cell, current molecular genetic techniques, cell structure and function, and signal transduction pathways.

Pre-requisite: HSCI1002

### **HSCI2002 GENERAL AND CLINICAL MICROBIOLOGY**

This course provides students with a broad-based foundation in the basic concepts of general and clinical microbiology. Topics covered include an overview of microbiology with basic information on bacteria, fungi, protozoa and viruses, a discussion of microbial physiology and genetics, and an introduction to microbial pathogenesis and the host response, providing a conceptual basis for understanding pathogenic microorganisms and the mechanisms by which they cause diseases in the human body. Successful completion of this course will prepare students for more advanced courses in related fields.

Pre-requisites: HSCI1002 and HSCI1003

### **HSCI2004 GENETICS AND EPIGENETICS**

This course introduces the basic principles of classical genetics, molecular genetics and epigenetics and explains how biological information is stored and expressed. Students will understand how changes in genetic information (e.g. deoxyribose nucleic acid (DNA)) will affect gene function and may lead to diseases and learn about what information can be obtained from deoxyribose nucleic acid (DNA) sequencing. Topics covered include inheritance, gene structure, expression and regulation, molecular genetic techniques, population and evolutionary genetics, followed by a discussion of the role of epigenetics in biological phenomena.

Pre-requisites: HSCI1000 and HSCI1002

### **HSCI2005 BIOLOGY OF DEVELOPMENT AND AGING**

This course discusses animal development with focus on initiation and construction of an organism and the underlying molecular and genetic basis. Topics covered include an overview of developmental biology, the molecular mechanisms of development, cell commitment and early embryonic development, and the vertebrate development process. A final section is devoted to a discussion of the aging process, including the evolutionary, biochemical, genetic and cellular mechanisms of aging, as well as age-related diseases.

Pre-requisites: HSCI1002 and HSCI2000

### **HSCI2006 PHYSIOLOGY AND PATHOPHYSIOLOGY**

This course provides an introduction to the structure and function of the major physiological organ systems of the human body, how various body processes are integrated and regulated, and how perturbations in physiological regulatory mechanisms and anatomy result in



pathophysiology. Common diseases and disorders of each system are covered, and emphasis is given on cardiovascular, pulmonary, hepatic, renal and reproductive systems.

Pre-requisites: HSCI1003 and HSCI2000

### **MATH1001 LINEAR ALGEBRA I**

1. Systems of Linear Equations and matrices.
2. Gaussian elimination.
3. Determinants.
4. Cramer's rule.
5. Euclidean Spaces.
6. Addition and scalar multiplication of vectors.
7. Linear transformations.
8. Vector Spaces.
9. Linear independence and linear dependence.

Pre-requisites: None

### **MATH1002 LINEAR ALGEBRA II**

1. Vector Spaces.
2. Basis and dimension.
3. Matrices, row spaces, column spaces and null spaces.
4. Rank and nullity.
5. Inner product spaces.
6. Inner products and orthonormal bases.
7. Gram-Schmidt process.
8. Least square problems and orthogonal matrices.
9. Eigenvalues and eigenvectors.
10. Diagonalization, orthogonal diagonalization.
11. Linear transformations.
12. Kernel and range.
13. Inverse linear transformations.
14. Similarity.
15. Additional topics include quadratic forms, unitary, normal, Hermitian matrices, and canonical forms.

Pre-requisites: MATH1001

### **MATH1003 INTERMEDIATE CALCULUS**

1. Definite integrals.
2. Fundamental theorem of calculus.
3. Applications of definite integrals.
4. Approximations of definite integrals.
5. Sequence and series.
6. Power series and Taylor series.

Pre-requisite: GEST1004

### **MATH1004 GEOMETRY**

Euclidean geometry, Euclidean space, inner product, distance, and angle. Isometries. Vectors in planes and spaces. Lines and planes and surfaces in 3-dimensional space. Linear transformations, projections, orientations and determinants, isomorphisms, and general linear groups. Symmetries and regular polyhedrons. Affine geometry. Affine spaces and affine transformations. Brief discussion on the development of various geometries such as Euclidean and non-Euclidean ones.

Pre-requisite: None

### **MATH2002 MULTIVARIABLE CALCULUS**

1. Vectors and analytic space geometry.
2. Norms, convergence of vector sequences, open and closed sets, compact sets.

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3. Curves, Frenet frames, surfaces.
  4. Functions of several variables.
  5. Partial derivatives and their applications, linear approximation, differential, Taylor's formula.
  6. Method of Lagrange multiplier.
  7. Inverse function theorem, implicit function theorem.
  8. Multiple integrals.
  9. Green's Theorem.
  10. Line and surface integrals.
  11. Gauss and Stokes' Theorems.
- Pre-requisite: GEST1004

### **MATH2003 MATHEMATICAL ANALYSIS I**

1. The axioms for the real number system.
  2. Countable and uncountable sets.
  3. Sequence of real numbers.
  4. Nested intervals theorem.
  5. Bolzano-Weierstrass theorem, Cauchy criterion and Heine-Borel Theorem.
  6. Limits and continuity of functions.
  7. Properties of continuous functions.
- Pre-requisite: GEST1004

### **MATH2004 MATHEMATICAL ANALYSIS II**

1. Differentiation.
  2. Mean value Theorem.
  3. L'Hopital's Rule.
  4. Inverse function theorem.
  5. Integration.
  6. Upper and lower integrals.
  7. Riemann integrals.
  8. Fundamental theorem of calculus.
  9. Elementary functions.
  10. Series of numbers.
  11. Tests for convergence.
  12. Series of functions.
  13. Uniform convergence.
  14. Power series and Taylor series.
- Pre-requisite: MATH2003

### **MATH2005 PROBABILITY**

1. Sample space, random events, and probability.
  2. Discrete and continuous random variables.
  3. Distributions, densities, joint distribution, and marginal distributions.
  4. Conditional probability and independence, Moments, mean, variance, covariance, Chebyshev's inequality, and moment generation functions.
  5. Special probability distributions, densities, and their applications.
- Pre-requisite: GEST1004

### **MATH2006 APPLIED STATISTICS**

Sampling distributions: Chi-square distribution, t-distribution, and F-distribution. Laws of large number and Central limit theorems. Estimation: theory and application. Hypotheses testing: theory and application. Linear regressions, correlation analysis, linear statistical model. The analysis of variance: theory and application. Introduction of statistical computing software.

Pre-requisite: MATH2005

### **MATH3000 ORDINARY DIFFERENTIAL EQUATIONS**

1. First-order differential equations.
2. Second-order linear differential equations.
3. Higher order linear differential equations.
4. Systems of differential equations.
5. Power series solutions of linear differential equations, Sturm-Liouville problems.
6. Laplace transforms.
7. Existence and uniqueness theorem of first-order differential equations.
8. Simple modeling problems.

Pre-requisite: MATH1003

### **MATH3001 COMPLEX ANALYSIS**

Complex numbers. Polar coordinates. Functions of a complex variable. Limits. Derivatives of complex functions. Cauchy-Riemann equations. Harmonic functions, harmonic conjugates. Elementary complex functions, Mobius transformations. Contour integrals. Cauchy-Goursat Theorem. Cauchy integral formula. Liouville's theorem. Maximum moduli of functions. Taylor series. Laurent series. Residue theorems. Evaluation of improper integrals. Rouche's theorem.

Pre-requisite: MATH1003

### **MATH3003 ABSTRACT ALGEBRA**

Groups. Cyclic groups and permutation groups. Cosets and Lagrange theorem. Homomorphisms. Normal subgroups and factor groups. Group action and counting. Rings. Integral domains. Ring homomorphisms. Ideals and quotient rings. Field of quotients. Rings of polynomials. Introduction to Fields.

Pre-requisite: MATH1001

### **MATH3004 PARTIAL DIFFERENTIAL EQUATIONS**

1. Characteristics, classification of PDE, separation of variables, Fourier transform, and Laplace transform.
2. Well-posedness of the wave and the heat equations.
3. Boundary value problems for the Laplace and Poisson equations.
4. Separation of variables.

Pre-requisites: MATH2002 and MATH3000

### **MATH3007 HISTORY OF MATHEMATICS**

We will explore some major themes in mathematics—calculation, number, geometry, algebra, infinity, formalism—and their historical development in various civilizations, ranging from the antiquity of Babylonia and Egypt through classical Greece, the Middle and Far East, and on to modern Europe. We will see how the earlier civilizations influenced or failed to influence later ones and how the concepts evolved in these various civilizations.

Pre-requisite: None

### **MATH3013 MATHEMATICAL MODELING**

Modeling techniques for analysis or decision-making. The detailed content in this course can vary from extending students' training and understanding in applied mathematical knowledge to further study in specific areas in applied mathematics.

Pre-requisite: MATH1003

### **MATH4000 ELEMENTARY NUMBER THEORY**

Divisibility theory of the integers, primes, unique factorization, congruence. Fermat's little theorem, Diophantine equations. Quadratic residues and quadratic reciprocity laws, primitive roots. Pell's equations and continued fractions.

Pre-requisite: None

## **Faculty of Health Sciences**

### **Doctoral Degree Programmes**

#### AREAS OF STUDY

- Biomedical Sciences
- Public Health

FACULTY OF HEALTH SCIENCES

# Doctoral Degree Programmes

## Doctor of Philosophy

- Biomedical Sciences

		Credits
<b>Compulsory Courses</b>		
HSCI8003	Research Ethics	--
HSCI8004	Methodologies in Biomedical Sciences	3
HSCI8005	Critical Scientific Reading, Writing and Analysis	3
HSCI8006	Advanced Molecular Cell Biology	3
<b>Required Elective Course</b>		3
<i>Students are required to take 1 course from the following:</i>		
HSCI8118	Advanced Genetics and Bioinformatics	
HSCI8119	Advanced Biomedical and Chemical Engineering	
<b>Doctoral Thesis</b>		
HSCI8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>30</b>

# Doctoral Degree Programmes

## Doctor of Public Health

		Credits
<b>Compulsory Courses</b>		
HSCI8003	Research Ethics	--
HSCI8005	Critical Scientific Reading, Writing and Analysis	3
HSCI8200	Advanced Epidemiology	3
HSCI8201	Advanced Biostatistics	3
HSCI8202	Principles of Public Health	3
HSCI8203	Environmental Health Science	3
HSCI8204	Public Health Policy and Assessment	3
HSCI8205	Health Informatics	3
HSCI8206	Health Care Management	3
<b>Required Elective Courses</b>		
<i>Students are required to take 2 courses from the following:</i>		6
CMED8011	Advanced Topics in Medicinal Administration	
HSCI8004	Methodologies in Biomedical Sciences	
HSCI8118	Advanced Genetics and Bioinformatics	
HSCI8207	Current Issues in Public Health	
HSCI8208	Current Issues in Hospital Management	
<b>Doctoral Thesis</b>		
HSCI8299	Doctoral Thesis	18
<b>Grand Total:</b>		<b>48</b>

FACULTY OF HEALTH SCIENCES

# Master's Degree Programme

## Master of Science

- Global Public Health

		Credits
<b>Compulsory Courses</b>		
CMED7018	Bio-Statistics	3
HSCI7002	Biomedical Sciences	3
HSCI7005	Toxicology and Environmental Health	3
HSCI7006	Epidemiology	3
HSCI7007	Advanced Nutrition and Food Safety	3
HSCI7008	Health Systems and Policy	3
HSCI7009	Case Analysis of Global Health Crisis: Managing Epidemics	3
<b>Required Elective Course</b>		
<i>Students are required to take 1 course from the following:</i>		3
CMED7004	Social Medicine	
HSCI7001	Artificial Intelligence in Medicine	
HSCI7003	Digital Biomedicine	
HSCI7004	Healthcare Analytics	
<b>Project Report</b>		
HSCI7898	Project Report	6
<b>Grand Total:</b>		<b>30</b>

# Bachelor's Degree Programmes

## Bachelor of Science

- **Biomedical Sciences**

Year I		Credits
<b>Compulsory Courses</b>		
APAC1004	General Physics	4
APAC1005	Physics Lab	1
HSCI1000	General Chemistry	3
HSCI1001	General Chemistry Lab	2
HSCI1002	Introduction to Biological Sciences	3
HSCI1003	General and Clinical Biochemistry	3
HSCI1004	Biochemistry Lab	1.5
HSCI1005	Organic Chemistry	4
HSCI1006	Organic Chemistry Lab	2
MATH1007	Introduction to Probability	1
<b>Languages and Skills Courses*</b>		
	English Language Courses or Free Electives	6
<b>Community and Peer Education Courses</b>		3
<b>General Education Courses</b>		
GELH1000	Chinese Language and Culture (Area of Literature & Humanities)	3
GEST1003	Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
<b>Total Credits:</b>		<b>39.5</b>



Year II		Credits
<b>Compulsory Courses</b>		
CISC1001	Programming Science	3
CISC1004	Introduction to Computer Science	3
HSCI2000	Cell and Molecular Biology	3
HSCI2001	Cell and Molecular Biology Lab	1.5
HSCI2002	General and Clinical Microbiology	3
HSCI2003	Microbiology Lab	1.5
HSCI2004	Genetics and Epigenetics	3
HSCI2006	Physiology and Pathophysiology	3
HSCI2007	Physiology Lab	1.5
HSCI2008	Human Anatomy	3
HSCI3002	Immunology and Infectious Diseases	3
HSCI3003	Biostatistics and Experimental Design	3
<b>Languages and Skills Courses*</b>		
	English Language Course or Free Elective	3
	Chinese/Portuguese Language Course or Free Elective	3
<b>General Education Course</b>		
	1 General Education Course	3
<b>Total Credits:</b>		<b>40.5</b>

Year III		Credits
<b>Compulsory Courses</b>		
HSCI2005	Biology of Development and Aging	3
HSCI3000	Neuroscience and Neurodegenerative Diseases	3
HSCI3001	Endocrinology and Metabolic Diseases	3
HSCI3004	Genomics and Bioinformatics	3
HSCI3005	Genetics, Genomics and Bioinformatics Lab	1.5
<b>General Education Courses</b>		
GEA1000	Macao and Chinese Civilization (Area of Global Awareness)	3
GESB1000	Ethics, Values, Law and Society (Area of Society & Behaviour)	3
	2 General Education Courses	6
<b>Languages and Skills Course*</b>		
CISC1000	Information Technology Fundamentals and Practices	3
<b>Total Credits:</b>		<b>28.5</b>

Year IV		Credits
<b>Compulsory Courses</b>		
HSCI4000	Graduation Project I	3
HSCI4001	Cancer Biology and Therapy	3
HSCI4002	Stem Cell Biology and Regenerative Medicine	3
HSCI4005	Graduation Project II	3
HSCI4006	Public Health	3
HSCI4007	Translational Medicine	3
<b>Required Elective Courses</b>		
<i>Students are required to take 1 course from the following:</i>		3
HSCI2009	Pharmacology	
HSCI4004	Drug Discovery and Development	
HSCI4009	Toxicology	
<b>General Education Course</b>		
1 General Education Course		3
<b>Total Credits:</b>		<b>24</b>

	Credits
<b>Grand Total:</b>	<b>132.5</b>

\*Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s). Please visit the Registry's webpage (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>) for more details about the test out criteria.

FACULTY OF HEALTH SCIENCES

# Bachelor's Degree Programmes

## Bachelor of Science

- **Bioinformatics**

Year I		Credits
<b>Compulsory Courses</b>		
HSCI1000	General Chemistry	3
HSCI1002	Introduction to Biological Sciences	3
HSCI1003	General and Clinical Biochemistry	3
HSCI1004	Biochemistry Lab	1.5
MATH1001	Linear Algebra I	3
MATH1007	Introduction to Probability	1
<b>Languages and Skills Courses*</b>		
English Language Courses or Free Electives		6
Chinese/Portuguese Language Course or Free Elective		3
<b>Community and Peer Education Courses</b>		2
<b>General Education Courses</b>		
GELH1000	Chinese Language and Culture (Area of Literature & Humanities)	3
GEST1003	Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
1 General Education Course		3
<b>Total Credits:</b>		<b>34.5</b>

Year II		Credits
<b>Compulsory Courses</b>		
CISC1001	Programming Science	3
CISC1004	Introduction to Computer Science	3
HSCI2000	Cell and Molecular Biology	3
HSCI2001	Cell and Molecular Biology Lab	1.5
HSCI2002	General and Clinical Microbiology	3
HSCI2004	Genetics and Epigenetics	3
HSCI2006	Physiology and Pathophysiology	3
HSCI3002	Immunology and Infectious Diseases	3
HSCI3003	Biostatistics and Experimental Design	3
<b>Languages and Skills Courses*</b>		
English Language Course or Free Elective		3
CISC1000	Information Technology Fundamentals and Practices	3
<b>Community and Peer Education Course</b>		1
<b>General Education Course</b>		
GEA1000	Macao and Chinese Civilization	3
<b>Total Credits:</b>		<b>35.5</b>
Year III		Credits
<b>Compulsory Courses</b>		
CISC2003	Object Oriented Programming and Data Structures	3
CISC3000	Introduction to Database Systems	3
HSCI2008	Human Anatomy	3
HSCI3004	Genomics and Bioinformatics	3
HSCI3005	Genetics, Genomics and Bioinformatics Lab	1.5
HSCI3006	Advanced Bioinformatics	3
HSCI3016	Evolutionary Biology	3
HSCI3017	Medical Genetics	3
<b>Required Elective Courses</b>		
2 Required Elective Courses		6
<b>General Education Courses</b>		
GESB1000	Ethics, Values, Law and Society (Area of Society & Behaviour)	3
1 General Education Course		3
<b>Total Credits:</b>		<b>34.5</b>

Year IV		Credits
<b>Compulsory Courses</b>		
HSCI4000	Graduation Project I	3
HSCI4005	Graduation Project II	3
HSCI4006	Public Health	3
HSCI4007	Translational Medicine	3
HSCI4011	Pharmacoinformatics	3
HSCI4012	Bioinformatics in Action	3
<b>Required Elective Course</b>		
1	Required Elective Course	3
<b>General Education Courses</b>		
2	General Education Courses	6
<b>Total Credits:</b>		<b>27</b>
		<b>Credits</b>
<b>Grand Total:</b>		<b>131.5</b>

List of Required Elective Courses:		Credits
CISC1006	Probability and Statistics	3
CISC2002	Numerical Methods and Computation	3
CISC3011	Digital Image Processing	3
CISC3012	Artificial Intelligence	3
CISC3015	Data and Information Visualization	3
CISC3023	Machine Learning	3
HSCI3014	Pharmacy Administration	3
HSCI4010	Pharmaceutical Economics and Policy	3

\* Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s). Please visit the Registry's webpage (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>) for more details about the test out criteria.

# Bachelor's Degree Programmes

## Bachelor of Science

- **Pharmaceutical Sciences and Technology**

Year I	Credits
<b>Compulsory Courses</b>	
APAC1004 General Physics	4
APAC1005 Physics Lab	1
CISC1004 Introduction to Computer Science	3
HSCI1000 General Chemistry	3
HSCI1001 General Chemistry Lab	2
HSCI1002 Introduction to Biological Sciences	3
HSCI1003 General and Clinical Biochemistry	3
HSCI1004 Biochemistry Lab	1.5
HSCI1005 Organic Chemistry	4
HSCI1006 Organic Chemistry Lab	2
MATH1007 Introduction to Probability	1
<b>Languages and Skills Courses*</b>	
English Language Courses or Free Electives	6
<b>General Education Course</b>	
GEST1003 Quantitative Reasoning for Health Sciences (Area of Science & Technology)	3
<b>Community and Peer Education Courses</b>	
	2
<b>Total Credits:</b>	<b>38.5</b>

Year II		Credits
<b>Compulsory Courses</b>		
APAC3005	Physical Chemistry	3
CISC1001	Programming Science	3
HSCI2002	General and Clinical Microbiology	3
HSCI2003	Microbiology Lab	1.5
HSCI2006	Physiology and Pathophysiology	3
HSCI2008	Human Anatomy	3
HSCI2009	Pharmacology	3
HSCI2010	Pharmacology Lab	1.5
HSCI2011	Analytical Chemistry	3
HSCI2012	Analytical Chemistry Lab	2
HSCI2013	Medicinal Chemistry	3
HSCI3003	Biostatistics and Experimental Design	3
<b>Languages and Skills Course*</b>		
	English Language Course or Free Elective	3
<b>Community and Peer Education Course</b>		1
<b>Total Credits:</b>		<b>36</b>

Year III		Credits
<b>Compulsory Courses</b>		
HSCI3008	Biopharmaceutics and Pharmacokinetics	3
HSCI3009	Chinese Medicine	3
HSCI3010	Pharmaceutics	3
HSCI3011	Pharmaceutics Lab	1.5
HSCI3012	Pharmaceutical Analysis	3
HSCI3013	Pharmaceutical Analysis Lab	1.5
HSCI3014	Pharmacy Administration	3
<b>Required Elective Course</b>		
	1 Required Elective Course	3
<b>Languages and Skills Course*</b>		
CISC1000	Information Technology Fundamentals and Practices	3

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**General Education Courses**

GEA1000	Macao and Chinese Civilization (Area of Global Awareness)	3
GESB1000	Ethics, Values, Law and Society (Area of Society & Behaviour)	3
1 course from area of Society and Behaviour		3
1 course from area of Science and Technology		3

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<b>Total Credits:</b>	<b>36</b>
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<b>Year IV</b>	<b>Credits</b>
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**Compulsory Courses**

HSCI4000	Graduation Project I	3
HSCI4005	Graduation Project II	3
HSCI4009	Toxicology	3

**Required Elective Courses**

2 Required Elective Courses	6
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**Languages and Skills Course\***

Chinese/Portuguese Language Course or Free Elective	3
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**General Education Courses**

GELH1000	Chinese Language and Culture (Area of Literature & Humanities)	3
1 course from area of Literature and Humanities		3
1 course from area of Global Awareness		3

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<b>Total Credits:</b>	<b>27</b>
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	<b>Credits</b>
<b>Grand Total:</b>	<b>137.5</b>

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<b>List of Required Elective Courses:</b>	<b>Credits</b>
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HSCI3007	Biomedical Materials	3
HSCI3015	Phytochemistry	3
HSCI4004	Drug Discovery and Development	3
HSCI4006	Public Health	3
HSCI4007	Translational Medicine	3
HSCI4010	Pharmaceutical Economics and Policy	3
HSCI4011	Pharmacoinformatics	3



\* Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s). Please visit the Registry's webpage (<https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/>) for more details about the test out criteria.

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## Course Description

### DOCTORAL DEGREE PROGRAMME

#### **HSCI8003 RESEARCH ETHICS**

This course provides students with an understanding of the need for research ethics and the responsibility of the researcher (the student); the most common types of academic dishonesty (such as fabrication and plagiarism); how to avoid committing acts of academic dishonesty (such as through using citations and references); and how the University deals with students who have been proven to have committed acts of academic dishonesty (The University's 'Rules on Handling Student Academic Dishonesty' will be outlined).

Pre-requisite: None

#### **HSCI8004 METHODOLOGIES IN BIOMEDICAL SCIENCES**

This course aims to equip students with basic knowledge and general techniques commonly used in Biomedical Science research. Students will learn the scientific jargon, basic biology, and theories associated with each technique so that students can perform and understand common research methods. This course aims to help them with their research, project design, Qualifying Examination and graduate with PhD in "Biomedical Sciences".

Pre-requisite: None

#### **HSCI8005 CRITICAL SCIENTIFIC READING, WRITING AND ANALYSIS**

This course aims to provide training and instruction in the methods and practice of critically reading, writing, and analysing scientific text. Students will learn reading strategies, annotation methods, and techniques in outlining and summarizing a text. Students will also learn essential structure and writing techniques for manuscripts and proposals. The course is activity based and students will participate in reading, analysing, and writing exercises.

Pre-requisite: None

#### **HSCI8006 ADVANCED MOLECULAR CELL BIOLOGY**

This course aims to provide a comprehensive coverage at advanced level on topics in molecular and cell biology, such as DNA and Gene Editing, Gene Expression, Cytoskeleton and Intracellular Mobility, Mitochondria and Bioenergetics, ER-Golgi and Protein Sorting, Proteasome and Protein Degradation, Lysosome and Autophagy, cell signalling, cell cycle, cell death, etc. This course is taught by professors from FHS with the relevant background. The model of teaching includes both lecture and paper discussion. The students are assessed via closed-book essay questions.

Pre-requisite: None

#### **HSCI8118 ADVANCED GENETICS AND BIOINFORMATICS**

The course aims to provide advanced knowledge in genetics and bioinformatics, new progress in both theoretical and methodological aspects, and future perspectives in the field. It combines the lecture and literature analysis, with student presentation and discussion on specific topics.

Pre-requisite: None

#### **HSCI8119 ADVANCED BIOMEDICAL AND CHEMICAL ENGINEERING**

This course aims to provide the students the underlying principles of biomedical imaging X-ray CT, SPECT, PET, optical imaging, and MRI; emphasize emerging nanotechnologies and biomedical applications including nanomaterials, nanoengineering, nanotechnology-based drug delivery systems, nano-based imaging and theranostic systems, nanotoxicology, and translating nanomedicines into clinical investigation; and explore the process of drug development, from target identification to final drug registration, involving target selection, lead discovery using computer-based methods, combinatorial chemistry/highthroughput screening, safety evaluation, bioavailability, clinical trials, and the essentials of patent law.

Pre-requisite: None

**HSCI8200      ADVANCED EPIDEMIOLOGY**

This course shall build upon the basic foundations of epidemiological principles and provide students with advanced knowledge and skills in epidemiology, enabling them to have internationally leading expertise that can be applied in public health epidemiology. Areas this course shall cover include setting up epidemiological research using cohort study, matched case-controlled study and self-controlled case study (SCCS) designs, advanced issues on informing causality including reverse causality and estimating risks of residual confounding and issues in survival studies. The course is prepared to allow students to use this advanced expertise to evaluate epidemiology and design and conduct international quality epidemiology research important to current issues within public health.

Pre-requisite: None

**HSCI8201      ADVANCED BIOSTATISTICS**

This advanced statistics course covers advanced topics in statistical inference and modeling. Students will learn advanced statistical techniques and methodologies, including maximum likelihood estimation, Bayesian inference, and linear mixed models. The course also focuses on the application of these methods in the context of biological data, such as gene expression data, sequence data, and proteomics data. Students will gain practical experience through hands-on programming exercises and projects and will develop the skills needed to analyze and interpret complex biological data using advanced statistical methods.

Pre-requisite: None

**HSCI8202      PRINCIPLES OF PUBLIC HEALTH**

This course explores the historical context of the public health field, reviews the public health infrastructure and workforce, and examines evidence-based practices to address current public health issues. Students will gain an understanding of key principles in public health, including wider social and environmental influences on health and illness, approaches to prevention, population health research findings, and economic and ethical aspects of healthcare. The course will examine health disparities, quality, and accessibility, and will focus on strategies to promote health equity and healthy lifestyles. Students will be able to apply them to their specialized areas of study.

Pre-requisite: None

**HSCI8203      ENVIRONMENTAL HEALTH SCIENCES**

This course equips students' knowledge on the complex relationship between environmental factors and public health, covering topics such as toxicology, air and water quality, soil contamination, food safety, and radiation. Students gain understanding about the health impacts of climate change, the built environment, and risks to occupational exposures, as well as the principles of environmental justice and health equity. The course emphasizes risk assessment, management, and communication, and provides an overview of key environmental health policies and regulations. Students will use real-world cases applications to practically understand the implications of environmental health in public health.

Pre-requisite: None

**HSCI8204      PUBLIC HEALTH POLICY AND ASSESSMENT**

This course delves into the development, implementation, and evaluation of public health policies, focusing on evidence-based decision making and assessing impact upon public health and consequences of health policy implementation. Students explore various frameworks and methods used in policy analysis, considering key factors such as social determinants of health, equity, as well as health economic sciences such as cost-effectiveness. The course emphasizes the importance of collaboration with stakeholders, interdisciplinary approaches, and effective planning and communication strategies in shaping public health policies. Through real-world examples, students learn to critically appraise policy options, assess their potential health impacts, and contribute to the development of equitable and sustainable public health interventions.

Pre-requisite: None

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### **HSCI8205     HEALTH INFORMATICS**

This course introduces the principles and applications of health informatics in public health practice, focusing on data acquisition, management, analysis, and visualization. Students will learn how to harness information technology and digital tools to improve health outcomes, enhance decision-making, and facilitate interdisciplinary collaboration. The course covers topics such as electronic health records, telemedicine, mobile health, big data analytics, health economics and artificial intelligence. Emphasis is also placed on ethical considerations, data privacy, and security challenges in the context of public health informatics. Through practical assignments and case studies, students develop the skills needed to integrate informatics effectively into public health research, building public health policies and interventions.

Pre-requisite: None

### **HSCI8206     HEALTH CARE MANAGEMENT**

The course explores the planning, operations, and regulations of health care facilities such as hospitals, clinics, and nursing homes. Students also learn about the doctor-patient relationship and how it impacts the delivery of healthcare services. The course emphasizes the development of students' long-term vision, organizational capabilities, and business planning skills within medical institutions. Additionally, students learn how to collaborate with government decision-makers and other medical institutions to achieve optimal healthcare outcomes. The course well-equips the students with the capability to manage healthcare facilities and lead healthcare teams effectively.

Pre-requisite: None

### **HSCI8207     CURRENT ISSUES IN PUBLIC HEALTH**

The course provides an overview of priority concerns such as COVID-19, Substance Dependence, Social Media Misinformation/Disinformation Campaigns, Health Equity, Food Insecurity and Food Deserts, Mental Health / Social Isolation, Data Modernization and Privacy, and Environmental Impact on Health. Students apply their knowledge in public health, epidemiology, sociology, and economics to evaluate the social and environmental factors affecting these health issues. Through analyzing the effectiveness of current public policies and me, students develop recommendations for policy and programme development to improve outcomes for contemporary health issues. These topics are explored in national and international contexts.

Pre-requisite: None

### **HSCI8208     CURRENT ISSUES IN HOSPITAL MANAGEMENT**

This course aims to provide comprehensive hospital management theories and methods, empowering students to master human, financial, material, information, time, and other resources at the hospital. By doing so, they can achieve optimal benefits from management activities. Hospital management is an excellent career choice for individuals who aspire to handle administrative and managerial roles in healthcare institutes. Furthermore, Hospital Management prepares students to manage various hospital-related tasks, such as ensuring that all departments function smoothly, assigning the right people to the appropriate jobs and ensuring that they perform their duties diligently, optimizing resource utilization to achieve common goals in healthcare system. There are two key aspects in this course: (1) to equip students with the knowledge and skills required to effectively manage healthcare organizations; (2) to provide students with a comprehensive understanding of the healthcare industry and the role of hospitals in the healthcare system.

Pre-requisite: None

### **HSCI8299     DOCTORAL THESIS**

The Doctoral Thesis provides students with the opportunity to plan and conduct significant research, investigation, or development project under academic supervision. Students apply the techniques learned throughout the programme to address a real global problem in public health. This includes collecting and processing real data, designing and implementing analytical methods and tools, and applying, evaluating, and critically assessing data analysis,

visualization, and prediction techniques. The project requires high-level coordinated academic and practical work, culminating in the production of a written thesis that demonstrates the student's expertise and contribution to the field of public health.

Pre-requisite: None

### **HSCI8999 DOCTORAL THESIS**

During the study period, students are required to perform independent research work under the supervision of the thesis supervisor. After successfully completing the qualifying examination and proposal assessment, a written thesis and an oral defence presenting the research findings with intellectual analysis are necessary for the assessment of the eligibility of graduation by the end of the study.

Pre-requisite: None

## **MASTER'S DEGREE PROGRAMME**

### **HSCI7001 ARTIFICIAL INTELLIGENCE IN MEDICINE**

This course introduces the concept of artificial intelligence (AI) in medicine, the associated big data analysis, and analytic programming. Medical AI is the use of algorithms and software to approximate human cognition in the analysis of complex medical data including those in global public health. AI is currently transforming healthcare delivery and is augmenting doctors' roles in medicine. This course covers analytic programming (predominately in R), big data analysis, and application for AI in medicine and global public health. The goal of this course is to develop students' understanding and to confer hands-on analytical skills for AI in medicine on them. It is also covers topics in global public health.

Pre-requisite: None

### **HSCI7002 BIOMEDICAL SCIENCES**

This course introduces the essential biological knowledge to students with non-biology background in order for them to understand, explain and evaluate the basic concepts of precision medicine. It uses cancer as a model disease to illustrate how precision medicine can provide better, individually tailored healthcare solutions to patients. The course introduces the methods of discovering the causes of cancer, the techniques to perform accurate diagnoses, the mechanisms of cancer therapies, and the different strategies for cancer treatment. In addition, basic knowledge on immunology, microbiology and infectious diseases will be introduced in this course, topics such as "Viruses", "Bacteria", "Immune System", "DNA analysis" will be added to the existing topics.

Pre-requisite: None

### **HSCI7003 DIGITAL BIOMEDICINE**

This course introduces the knowledge in digital medicine, technologies, and the associated big data and analysis to students with non-biology background, focusing on the public health issues with the global insights. Digital medicine is the convergence of digital technologies (including genomic technologies) with medicine, living, and society to enhance the efficiency of medicine delivery and make medicines more personalized and precise. This course covers high-throughput (HT) genotyping, HT phenotyping, artificial intelligence, big data analysis, public database, proteomics and other omics. The goal of this course is to develop students' understanding of digital medicine and required analytical skills for the exciting possibilities towards creating a new paradigm of precision medicine.

Pre-requisites: CMED7018 Bio-Statistics (for MSH-GPH)

CISC7204 Data Science and Data Visualization (for MSD-DTS-PMD)

### **HSCI7004 HEALTHCARE ANALYTICS**

Healthcare analytics is one of the fastest growing industries in our economy. Healthcare analytics allows for the examination of patterns in various healthcare data in order to determine

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how clinical care can be improved. This course introduces the essential elements of healthcare analytics to students with nonhealthcare background, and provides them with an overview of population health informatics, clinical informatics, imaging informatics, mobile healthcare and their contributions to precision medicine. The goal of this course is to develop students' understanding of healthcare analytics and analytical skills to comprehend healthcare data.

Pre-requisite: None

#### **HSCI7005 TOXICOLOGY AND ENVIRONMENTAL HEALTH**

The course covers basic concepts, knowledge and methods in toxicology, including the disposition of toxic substances by the body, how toxic substances react with biomolecules and lead to target organ toxicity / non-organ directed toxicity, knowledge about toxic substances, as well as applications of toxicology in environmental health and other application areas.

Pre-requisite: None

#### **HSCI7006 EPIDEMIOLOGY**

The course covers basic principles in epidemiology and risk management, including the tools of epidemiology, methods involved in measuring disease frequency, causes, morbidity, and mortality of diseases. Additionally, the course is designed to help students to apply the epidemiological knowledge to the real case studies and to find solution for the disease control and public policy. Finally, the course will prepare students to critically evaluate published epidemiological studies and communicate the scientific findings with science community, government policymakers, and general population in community.

Pre-requisite: None

#### **HSCI7007 ADVANCED NUTRITION AND FOOD SAFETY**

The course provides students with the advanced knowledge on human nutrition and food safety with the huge rise in diet-related health problem and in food safety emergencies. It focuses on nutrition and human health, and food safety problem (e.g. microbes, pesticides, food additives, allergens, industrial chemicals, and hazardous substances during cooking), as well as food risk assessment and management. It also introduces students to the serious effects of diet related diseases/disorders and provides them with the knowledge of food risk assessment and management. This course is of great interest to students because its contents are relevant to our daily life.

Pre-requisite: None

#### **HSCI7008 HEALTH SYSTEMS AND POLICY**

This course aims to introduce how global health systems function, how health policy is shaped and implemented, and the role of health system research for evidence-based policy-making and implementation. There are two key aspects to this course: (1) knowledge and understanding; and (2) skills and abilities. To help students build their knowledge background in global health systems and policy, major theories and frameworks for health systems and policies and how they are applied in different national contexts are introduced. A systematic approach in learning the interrelationship of context, content, process and actions during health policy development are covered. An integration of such knowledge into the analysis of health systems and policy implications, and the formulation of skillset required to participate in health systems research and development work are also emphasized.

Pre-requisite: None

#### **HSCI7009 CASE ANALYSIS OF GLOBAL HEALTH CRISIS: MANAGING EPIDEMICS**

Public health emergencies take a terrible toll, both on human life and global economy. This course introduces strategies for managing epidemics, using COVID-19, SARS, AIDS (HIV), pandemic influenza, Ebola virus disease, yellow fever, Zika, cholera, and plague as examples. It covers the pathophysiology of different diseases, the principles of testing, tracing and isolation (TTI), the expert guidance from World Health Organization (WHO) for effective epidemic responses, and lessons learned from success and failure in managing epidemics.

Pre-requisite: None

### **HSCI7898 PROJECT REPORT**

An individual project provides the opportunity to plan and execute a significant project of research, investigation or development, and to integrate learning and put the techniques learnt throughout the master programme into practice under an academic supervision. Students carry out high-level coordinated academic and practical work with an aim to solve a real global problem in public health, including collecting and processing real data, designing and implementing analytical methods and tools, and applying, evaluating and critically assessing data analysis, visualization and prediction techniques.

Pre-requisite: None

## **BACHELOR'S DEGREE PROGRAMME**

### **HSCI1000 GENERAL CHEMISTRY**

This course introduces the fundamental principles and concepts of chemistry to lay a foundation for future learning for students majoring in health sciences. The major areas covered in this course include atomic and molecular structure, chemical reactions and stoichiometry, energy and thermochemistry, chemical bonding, gases, chemical kinetics, chemical equilibrium, and property of liquids and solids.

Pre-requisite: None

### **HSCI1001 GENERAL CHEMISTRY LAB**

This laboratory course supplements the lecture course General Chemistry and provides students with hands on learning experience on qualitative and quantitative experimental techniques for investigating the properties and reactions of chemical substances.

Pre-requisite: HSCI1000 General Chemistry (or concurrent enrolment)

### **HSCI1002 INTRODUCTION TO BIOLOGICAL SCIENCES**

This course covers the fundamental aspects or principles of biological and biomedical sciences, and topics include: basic units of life, genetic basis of life, evolution and biodiversity, development and function, and ecology and environment. Although all three domains or five kingdoms of life will be covered, the course will focus more on animals and humans.

Pre-requisite: None

### **HSCI1003 GENERAL AND CLINICAL BIOCHEMISTRY**

This course introduces the molecular basis of biological processes through the logic of chemistry. Topics covered include the structure and function of biomolecules, biochemistry techniques, basic metabolic pathways, and a brief introduction to the biochemical bases of relevant disease states.

Pre-requisite: HSCI1002 Introduction to Biological Sciences

### **HSCI1004 BIOCHEMISTRY LAB**

This course aims to provide a hands-on opportunity for students to learn the basic experimental methods and instruments used in a biochemistry laboratory, and develop analytical and problem solving skills that will be required for the pursuit of their career in the health science area. Major topics covered include protein expression, concentration determination and gel electrophoresis, western blotting, chromatography, and enzyme kinetics. Students will also practice literature search and data presentation through the semester.

Pre-requisite: HSCI1003 General and Clinical Biochemistry (or concurrent enrolment)

### **HSCI1005 ORGANIC CHEMISTRY**

This course aims to provide students with an understanding of the basic principles of organic chemistry. Topics covered include nomenclature, structure, properties, stereochemistry, synthesis, and reactions of the major classes of organic compounds including hydrocarbons,

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alkyl halides, alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, aromatic compounds, amines, carbohydrates, amino acids, and nucleic acids. Further topics cover spectroscopic analysis of organic compounds.

Pre-requisite: HSCI1000 General Chemistry

### **HSCI1006 ORGANIC CHEMISTRY LAB**

This laboratory course supplements the lecture course Organic Chemistry and provides students learning experience in hands on experimental techniques. The course covers basic experimental skills in organic chemistry, including the synthesis of common organic compounds, the selection of synthetic route, and the characterization of organic compounds. Students observe and record experimental phenomena, identify problems, analyse problems, and develop problem-solving skills.

Pre-requisites: HSCI1000 General Chemistry

HSCI1001 General Chemistry Lab

HSCI1005 Organic Chemistry (or concurrent enrolment)

### **HSCI2000 CELL AND MOLECULAR BIOLOGY**

This course aims to provide an introduction to the principles of modern cell and molecular biology, and build a foundation for students to initiate and develop the process of inquiry-based learning and discovery in biology and medical sciences. The course discusses fundamental molecular biology of the cell, current molecular genetic techniques, cell structure and function, and signal transduction pathways.

Pre-requisite: HSCI1002 Introduction to Biological Sciences

### **HSCI2001 CELL AND MOLECULAR BIOLOGY LAB**

This laboratory course applies concepts learned in Cell and Molecular Biology lecture to a molecular biology research project, with an aim to introduce students to in vitro techniques utilized in a modern biological research lab. While it is not possible to cover all the methods and technologies in a single semester, the fundamental skills taught in this course will provide a basis for understanding many more complex approaches. Topics covered include ribose nucleic acid (RNA) isolation, agarose gel electrophoresis, polymerase chain reaction, restriction enzyme digestion, deoxyribose nucleic acid (DNA) cloning, bacterial transformation, plasmid deoxyribose nucleic acid (DNA) isolation, mammalian cell culture, deoxyribose nucleic acid (DNA) transfection, fluorescence microscopy, and subcellular fractionation.

Pre-requisites: HSCI1002 Introduction to Biological Sciences

HSCI2000 Cell and Molecular Biology (or concurrent enrolment)

### **HSCI2002 GENERAL AND CLINICAL MICROBIOLOGY**

This course provides students with a broad-based foundation in the basic concepts of general and clinical microbiology. Topics covered include an overview of microbiology with basic information on bacteria, fungi, protozoa and viruses, a discussion of microbial physiology and genetics, and an introduction to microbial pathogenesis and the host response, providing a conceptual basis for understanding pathogenic microorganisms and the mechanisms by which they cause diseases in the human body. Successful completion of this course will prepare students for more advanced courses in related fields.

Pre-requisites: HSCI1002 Introduction to Biological Sciences

HSCI1003 General and Clinical Biochemistry (except FED-INS programme)

### **HSCI2003 MICROBIOLOGY LAB**

This course provides an opportunity for students to gain hands-on experience on basic microbiology methods and techniques. Topics covered include basic microscopy, aseptic technique, media preparation, bacterial growth and culture, staining methods, biochemical tests of microbes, effects of physical and chemical agents on bacteria, and eukaryotic organisms and viruses.

Pre-requisite: HSCI2002 General and Clinical Microbiology (or concurrent enrolment)



### **HSC12004 GENETICS AND EPIGENETICS**

This course introduces the basic principles of classical genetics, molecular genetics and epigenetics and explains how biological information is stored and expressed. Students will understand how changes in genetic information (e.g. deoxyribose nucleic acid (DNA)) will affect gene function and may lead to diseases and learn about what information can be obtained from deoxyribose nucleic acid (DNA) sequencing. Topics covered include inheritance, gene structure, expression and regulation, molecular genetic techniques, population and evolutionary genetics, followed by a discussion of the role of epigenetics in biological phenomena.

Pre-requisite: HSC11002 Introduction to Biological Sciences

### **HSC12005 BIOLOGY OF DEVELOPMENT AND AGING**

This course discusses animal development with focus on initiation and construction of an organism and the underlying molecular and genetic basis. Topics covered include an overview of developmental biology, the molecular mechanisms of development, cell commitment and early embryonic development, and the vertebrate development process. A final section is devoted to a discussion of the aging process, including the evolutionary, biochemical, genetic and cellular mechanisms of aging, as well as age related diseases.

Pre-requisites: HSC11002 Introduction to Biological Sciences

HSC12000 Cell and Molecular Biology

### **HSC12006 PHYSIOLOGY AND PATHOPHYSIOLOGY**

This course provides an introduction to the structure and function of the major physiological organ systems of the human body, how various body processes are integrated and regulated, and how perturbations in physiological regulatory mechanisms and anatomy result in pathophysiology. Common diseases and disorders of each system are covered, and emphasis is given on cardiovascular, pulmonary, hepatic, renal and reproductive systems.

Pre-requisites: HSC11003 General and Clinical Biochemistry

HSC12000 Cell and Molecular Biology

### **HSC12007 PHYSIOLOGY LAB**

This course aims to provide an opportunity for students to learn the basic experimental skills of physiology and to develop analytical and problem solving skills for studying human physiology and the whole biomedical sciences. Major experiments to be covered include experiments on endocrine system, cardiovascular system, respiratory system, digestive system and urinary-reproductive system. In some experiments, lab animals are used.

Pre-requisite: HSC12006 Physiology and Pathophysiology (or concurrent enrolment)

### **HSC12008 HUMAN ANATOMY**

This course introduces human anatomy and histology, the concept of primary tissues, the basic embryology of the nervous, cardio-vascular, gastrointestinal and musculoskeletal systems. Clinical relevance of the anatomy is also emphasized.

Pre-requisite: HSC11002 Introduction to Biological Sciences

### **HSC12009 PHARMACOLOGY**

This course provides the introductory overview of the pivotal role played by pharmacology in drug development and the multidisciplinary nature of drug discovery. Major areas covered include molecular mechanisms as well as systematic effects of drugs. Appropriate methods and analysis for investigating and evaluation of the pharmacological effects in drug development are discussed with examples of commonly used medical drugs and new medicines development.

Pre-requisite: HSC11002 Introduction to Biological Sciences

### **HSC12010 PHARMACOLOGY LAB**

This course provides laboratory practice experience to students, and allows them to involve in the basic drug-discovery pipeline in person. It focuses on the evaluation of mechanisms of drug

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action, drug-receptor interaction, receptor target distribution, and systematic metabolism, and toxicity. Students learn the practical skills of how to evaluate pharmacological effects of medicine, and get up-to-date information on drugs used in the clinics.

Pre-requisite: HSCI2009 Pharmacology (or concurrent enrolment)

### **HSCI2011 ANALYTICAL CHEMISTRY**

This course introduces the basic theory, principle and knowledge of chemical analysis and instrumental analysis, which include titrimetric analysis, gravimetric analysis, electrochemical analysis, spectroscopic analysis and chromatographic analysis. Sampling, error and statistical analysis applied to analytical chemistry are also included.

Pre-requisite: HSCI1000 General Chemistry

### **HSCI2012 ANALYTICAL CHEMISTRY LAB**

This course introduces the experimental methods, instruments and data analysis used in analytical chemistry to the students, and assists the students in developing analytical and problem solving skills that are required for the pursuit of their career in the area of pharmaceutical science. Major topics covered include titrimetric analysis, gravimetric analysis, electrochemical analysis, spectroscopic analysis and chromatographic analysis. Students are required to perform literature search and data presentation during the semester.

Pre-requisites: HSCI1001 General Chemistry Lab

HSCI2011 Analytical Chemistry (or concurrent enrolment)

### **HSCI2013 MEDICINAL CHEMISTRY**

This course covers the chemical principles of drug design and drug action and provides an introduction to research in areas of bioorganic chemistry, bioinorganic chemistry, medicinal chemistry, pharmaceutical chemistry, and biotechnology.

Pre-requisite: HSCI1005 Organic Chemistry

### **HSCI3000 NEUROSCIENCE AND NEURODEGENERATIVE DISEASES**

This course aims to provide a systematic introduction to the mammalian nervous system. Topics covered include basic neuroanatomy, the electrophysiological properties of neural cells, sensory and motor systems, the structural and functional organization of the human brain, and an introduction to neural degenerative diseases.

Pre-requisite: HSCI2006 Physiology and Pathophysiology

### **HSCI3001 ENDOCRINOLOGY AND METABOLIC DISEASES**

The course introduces the roles of hormones, the pathophysiologic process by which hormonal secretion is abnormal, and characteristics and treatments of various endocrine disorders to students. A number of metabolic diseases that pertain to defects in hormone production or signaling are covered in the course. Main topics in the course include principles and practice of endocrinology, adrenal disorders, metabolic diseases, thyroid hormones and disorders, calcium homeostasis and metabolic bone disease, pituitary hormones and pituitary gland disorders, sex hormone disorders, and endocrine emergencies.

Pre-requisite: HSCI2006 Physiology and Pathophysiology

### **HSCI3002 IMMUNOLOGY AND INFECTIOUS DISEASES**

This course provides a basic knowledge of the immune response and its involvement in health and disease, as well as an introduction to infectious disease, including the pathophysiology, clinical presentation and therapeutic management of common infectious diseases. Knowledge from this course enables students to gain a broad foundation base and prepares them for advanced courses in the health care or medical research field.

Pre-requisite: HSCI2002 General and Clinical Microbiology

### **HSCI3003 BIOSTATISTICS AND EXPERIMENTAL DESIGN**

The course provides students with an understanding of basic concepts of data analysis and statistical inference in the medical and health sciences, with an emphasis on the application of

statistical methods to the design and interpretation of biological experiments and comparative data. Specific topics include tools for describing central tendency and variability in data, methods for performing inference on population means and proportions via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study designs, and random sample and other study types.

Pre-requisite: None

### **HSCI3004 GENOMICS AND BIOINFORMATICS**

This course introduces fundamental concepts and tools in genomics and bioinformatics to provide students with a foundation for doing innovative research. The course emphasizes on various types of functional genomic data available and current computational methods for interpreting and integrating the data to make inferences about cellular function. Topics covered include an introduction to genomics and bioinformatics, genomic sequencing, assembly and annotation, transcriptomics, proteomics, and application of genomic approaches.

Pre-requisite: HSCI2000 Cell and Molecular Biology

### **HSCI3005 GENETICS, GENOMICS AND BIOINFORMATICS LAB**

This laboratory course aims to provide students a hands-on experience through a series of laboratory experiments, designed to examine various genetics phenomenon in order to better understand fundamental genetics principles. In addition, students carry out experiments and data analysis related to the fields of genetics, genomics and bioinformatics, such as deoxyribose nucleic acid (DNA) and protein sequence analysis, data mining from different types of research databases, basic Bioinformatics analysis of next generation sequencing data, etc. This course equips students with the basic knowledge to solve biological questions using a genetics, genomics and bioinformatics approach.

Pre-requisites: HSCI2004 Genetics and Epigenetics

HSCI3004 Genomics and Bioinformatics (or concurrent enrolment)

### **HSCI3006 ADVANCED BIOINFORMATICS**

This course provides both theory and practice of commonly used methods in the analysis of bioinformatics data. These methods include analysis of ribose nucleic acid (RNA), deoxyribose nucleic acid (DNA), and protein sequence data, structure and function analysis, statistical methods, and techniques used in detection of disease associated genes and mutation loci. Analysis demos, practical work, and individual projects are conducted in web and UNIX/LINUX environments.

Pre-requisite: HSCI2000 Cell and Molecular Biology

HSCI3004 Genomics and Bioinformatics

### **HSCI3007 BIOMEDICAL MATERIALS**

This course focuses on the science of medical implants, scaffolds and devices that are playing a significant role in the globally aging population. It comprises key concepts in the design and applications of natural and synthetic biomaterials in various forms for bone, dental, skin, vascular, liver, lung and neural tissue regeneration and relevant applications. This course integrates the fundamental pharmaceutical and biomedical sciences with the cutting-edge medical applications in the real world and prepares the students for broad career opportunities across academic, medical and industrial fields.

Pre-requisites: HSCI1000 General Chemistry

HSCI1002 Introduction to Biological Sciences

### **HSCI3008 BIOPHARMACEUTICS AND PHARMACOKINETICS**

This course introduces the basic principles of pharmacokinetics involved in the onset, duration and termination of drug action. The essential factors governing drug disposition (absorption, distribution, metabolism and excretion) are elaborated. The mathematical basis on the model fitting process of the concentration-time data and the calculation of main pharmacokinetic parameters is introduced with hands-on practice. Drug-drug interactions-caused safety

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concerns are addressed in the context of the increasing trend in the prevalence of polypharmacy. Moreover, the metabolic function of gut microbiota and the role in drug disposition are updated. Finally, the relationship between pharmacokinetics and pharmacodynamics is explored to help understand clinical variability to drug response.

Pre-requisites: HSCI1003 General and Clinical Biochemistry

HSCI2006 Physiology and Pathophysiology

HSCI2011 Analytical Chemistry

### **HSCI3009 CHINESE MEDICINE**

This course focuses on the introduction of the basic theory of Chinese Medicine, and its application in clinic. It is divided into two parts, and in the first part, the essential theories of Chinese Medicine, including philosophical basis, fundamental concepts in Chinese Medicine and diagnostic methods are discussed. In the second part, the clinical applications of Chinese Medicine and scientific basis underlying the efficacy of Chinese Medicine are covered. Chinese Medicine has a systemic and complete theory and long-standing history. It is an exceptional branch of traditional medicine seen throughout the world, and is a treasure of Chinese traditional culture. With its unique and comprehensive theoretical system and remarkable therapeutic effects on different types of diseases and conditions, Chinese Medicine represents a major modality of medical care and prevention of disease by using alone or combined with biomedicine.

Pre-requisite: None

### **HSCI3010 PHARMACEUTICS**

This course introduces the preparation theory, formulation design, production technology, quality evaluation and other contents of pharmaceutical products for clinical applications. It assists the students in understanding the various dosage forms and drug delivery systems, and how medicinal and pharmaceutical substances are incorporated into them. Moreover, the applications of pharmaceutical technology on research and development of the Chinese medicine and healthcare product are introduced.

Pre-requisites: APAC3005 Physical Chemistry

HSCI2009 Pharmacology

### **HSCI3011 PHARMACEUTICS LAB**

This course provides laboratory practice for the students in pharmaceutical development that helps students understand the knowledge of dosage form design and development, quality evaluation which have learned in Pharmaceutics.

Pre-requisite: HSCI3010 Pharmaceutics (or concurrent enrolment)

### **HSCI3012 PHARMACEUTICAL ANALYSIS**

The course provides a comprehensive introduction to analytical chemistry relevant for chemical quality control of pharmaceutical raw materials and final drug products. It explains the process of experimental results elaboration for determining the appropriateness of the analytical method used in quality control, demonstrates how to use the pharmacopoeia for the analysis of pharmaceutical active ingredients and impurities (identification, quantitative analysis), and familiarizes students with performing various analytical methods in pharmaceutical analysis and quality control.

Pre-requisites: HSCI1005 Organic Chemistry

HSCI2011 Analytical Chemistry

### **HSCI3013 PHARMACEUTICAL ANALYSIS LAB**

This course focuses on the basic aspects of pharmaceutical dosage forms and pharmaceutical analytical skills. Each laboratory experiment is designed to provide students with hands-on experience in executing elementary analytical skills and quality control tests for various dosage forms, which helps students understand how to perform experiment design and possible troubleshooting. Students can be familiar with the analytical technicalities and experimental

design used for the qualitative and quantitative analysis and quality control of various active ingredients and pharmaceutical products.

Pre-requisites: HSCI2011 Analytical Chemistry  
HSCI3012 Pharmaceutical Analysis (or concurrent enrolment)

### **HSCI3014 PHARMACY ADMINISTRATION**

This course introduces the pharmacy management which is an interdisciplinary field of pharmacy and social sciences. The principles and methods of social science are applied on the activities and management of modern pharmacy. In this course, students can understand the basic law of pharmaceutical activities, be familiar with the pharmaceutical management system and organization, master the basic content and method, master Chinese and international main laws and regulations, have the ability with drug development, manufacture, distribution, use and other aspects of management and supervision. The students apply the theory and knowledge of pharmacy management to guide the practice work.

Pre-requisite: None

### **HSCI3015 PHYTOCHEMISTRY**

This course provides how natural products are normally classified according to their biosynthetic origins and chemical properties. A systematic study of natural products of medicinal and pharmaceutical importance to their identification, isolation, separation techniques are discussed. This course consists of lectures and lab experiments.

Pre-requisite: HSCI1005 Organic Chemistry

### **HSCI3016 EVOLUTIONARY BIOLOGY**

This course introduces the concepts in evolutionary biology, which serve as the foundation to understand biology and medicine, and to test hypotheses in scientific research. All life on Earth shares a last universal common ancestor that lived approximately 3.5 to 3.8 billion years ago, and has been shaped by repeated formations of new species, changes within species and loss of species throughout the evolutionary history of life on Earth. The course provides the opportunity for students to learn the history of life, evolutionary processes, the concepts of microevolution and macroevolution and speciation.

Pre-requisite: HSCI2000 Cell and Molecular Biology

### **HSCI3017 MEDICAL GENETICS**

This course introduces the concept of medical genetics which uses genetics principles for medical care of diagnosis, management, and counselling people with genetic disorders through using genomics, bioinformatics, gene therapy, personalized and predictive medicine. It covers topics in the principle of genetics, the use of genomics data and the controversial concerns of applying medical genetics in real life.

Pre-requisites: HSCI2000 Cell and Molecular Biology  
HSCI2004 Genetics and Epigenetics

### **HSCI4000 GRADUATION PROJECT I**

The final year project is an essential part of the degree. In this course, students work independently on a research project under the supervision of an academic faculty member, culminating in a written research proposal at the end of the first semester. The project supervisor guides the student through the process and provides support and advice on all aspects of the project work.

Pre-requisite: None

### **HSCI4001 CANCER BIOLOGY AND THERAPY**

Cancer has a profound impact on our society and has been the driving force behind major research advances in medical sciences. This course provides a comprehensive overview of the biology, pathology and treatment of cancer. Specific topics covered include an overview of

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the field, molecular and genetic basis of cancer, cancer pathology, carcinogens, and current cancer therapies.

Pre-requisites: HSCI2000 Cell and Molecular Biology

HSCI2004 Genetics and Epigenetics

### **HSCI4002 STEM CELL BIOLOGY AND REGENERATIVE MEDICINE**

This course covers a broad range of topics relevant to stem cell biology. This fast-moving field brings together many aspects of basic and applied biology and medicine, including development, regeneration/repair, and cancer. The course covers the following concepts and themes: pluripotency and reprogramming, pluripotent cell types, organ systems, stem cells and cancer, therapeutics and ethics. The lecture/discussion format gives students both a broad background and the opportunity to apply critical thinking skills to recent data in the field.

Pre-requisite: None

### **HSCI4004 DRUG DISCOVERY AND DEVELOPMENT**

This course aims to provide students with an overview of the drug discovery and development process from the identification of novel drug targets to the introduction of new drugs into clinical practice. Topics covered include approaches to new drug discovery, drug design and synthesis, pharmacodynamics, pharmacokinetics, drug interaction, drug transportation, prodrug design and application, the drug development process, and drug design case studies.

Pre-requisites: HSCI1003 General and Clinical Biochemistry

### **HSCI4005 GRADUATION PROJECT II**

The final year project is an essential part of the degree. In this course, students work independently on a research project under the supervision of an academic faculty member, culminating in a final project report and an oral presentation at the end of the second semester. The project supervisor guides the student through the process and provides support and advice on all aspects of the project work.

Pre-requisite: HSCI4000 Graduation Project I

### **HSCI4006 PUBLIC HEALTH**

This course intends to survey the broad field of public health and serves as an introduction to the major issues of health and health care in general as well as in local community. The course defines and describes public health issues, and identifies potential problems and their solutions.

Pre-requisite: None

### **HSCI4007 TRANSLATIONAL MEDICINE**

The aim of translational medicine is to translate knowledge, mechanisms and techniques discovered by basic scientific research into new approaches for diagnosis and treatment of diseases. This course focuses on the principles and practices of translational medicine as they apply to the development of a new drug (small molecules and/or biologics), device, or diagnostic. Topics covered include a historical perspective of translational medicine, emerging concepts in biomarker discovery, innovative drug development, cell therapies, translational bioinformatics, IRB & ethical considerations in human subject research, and human clinical trials.

Pre-requisite: HSCI2000 Cell and Molecular Biology

### **HSCI4009 TOXICOLOGY**

The course covers basic concepts, knowledge and methods in toxicology, including the disposition of toxic substances by the body, how toxic substances react with biomolecules and lead to target organ toxicity / non-organ directed toxicity, knowledge about toxic substances, as well as applications of toxicology including environmental, occupational, regulatory, food toxicology, and natural toxins.

Pre-requisite: None

**HSCI4010 PHARMACEUTICAL ECONOMICS AND POLICY**

This course aims to study pharmaceutical industry based on industry economics and health policy theory. The pharmaceutical industry and policy are presented and analyzed by combining industry evolution and global view in this course. Key management topics of pharma, including strategic management (business model), R&D (pharmaceutical innovation), and marketing, etc., are introduced. Pharmacoeconomic evaluation of drugs are also studied in this course. Related academic work in the leading journals are studied and discussed in this course to improve students' understanding the frontier researches in pharmaceutical economics and policy.

Pre-requisite: None

**HSCI4011 PHARMACoinFORMATICS**

This course introduces computationally algorithmic methods in collection, transformation, storage, organization, distribution, retrieval, visualization, and analysis of pharmaceutical and healthcare information. It provides a unique opportunity for students to learn essential computational chemistry, bioinformatics, artificial intelligence, physiologically-based pharmacokinetic modelling and simulation, computer science and their applications in pharmacy and medicine.

Pre-requisites: HSCI1000 General Chemistry  
HSCI1002 Introduction to Biological Sciences

**HSCI4012 BIOINFORMATICS IN ACTION**

This course introduces the applications in bioinformatics and computational biology, covering the analyses of genomics, transcriptome, epigenome and multi-omics. It provides exposure and training in data analysis of bioinformatics and computational biology.

Pre-requisites: CISC1004 Introduction to Computer Science  
HSCI3003 Biostatistics and Experimental Design

# Faculty of Law

## Doctoral Degree Programmes

### AREAS of STUDY

- Jurisprudence and Legal History
- Constitutional Law, Basic Law and Administrative Law
- Civil, Procedural and Commercial Law
- Criminal and Procedural Law
- International Law
- Comparative Law
- European Union Law
- International Business Law and Dispute Resolution
- Law on Technology and Medicine

	<b>Credits</b>
<b>Compulsory Courses</b>	
LAWS8001 Legal Research and Writing	3
LAWS8002 Research Ethics <sup>(Note1)</sup>	--
<b>Required Elective Courses</b> <sup>(Note2)</sup>	
LAWS8003 Comparative Legal System	3
LAWS8004 Comparative Judicial System	3
<b>Doctoral Thesis</b>	
LAWS8999 Doctoral Thesis	18
<b>Grand Total:</b>	<b>24</b>

Notes:

1. This course will be conducted online.
2. Students are required to enroll in any one of the required elective courses.



FACULTY OF LAW

# Master's Degree Programmes

## Master of Law (Chinese Language)

### • Constitutional Law, Basic Law and Administrative Law

	Credits
<b>Compulsory Courses</b>	
LAWS7101 Constitutional Law	3
LAWS7102 Macao Basic Law	3
LAWS7103 Administrative Law and Administrative Litigation Law	3
LAWS7104 Jurisprudence and Legal Philosophy	3
LAWS7091 Project Report	6
<b>Required Elective Courses</b>	
4 required elective courses from the Required Elective Course List	12
<b>Grand Total:</b>	<b>30</b>

### • Criminal Law and Criminal Procedural Law

	Credits
<b>Compulsory Courses</b>	
LAWS7105 Criminal Law	3
LAWS7106 Criminal Procedural Law	3
LAWS7107 Criminology and Criminal Justice	3
LAWS7108 Foreign Criminal Law	3
LAWS7091 Project Report	6
<b>Required Elective Courses</b>	
4 required elective courses from the Required Elective Course List	12
<b>Grand Total:</b>	<b>30</b>

### • Civil Law and Intellectual Property Law

	Credits
<b>Compulsory Courses</b>	
LAWS7109 Property Law	3
LAWS7110 Contract Law	3
LAWS7111 Copyright and Industrial Property Law	3
LAWS7112 Biotechnology Law and Policy	3
LAWS7091 Project Report	6
<b>Required Elective Courses</b>	
4 required elective courses from the Required Elective Course List	12
<b>Grand Total:</b>	<b>30</b>

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## • International Business Law

	<b>Credits</b>
<b>Compulsory Courses</b>	
LAWS7113 Trade and Investment Law of China and Portuguese - speaking Countries	3
LAWS7114 International Private Law	3
LAWS7115 Commercial Organizational Law	3
LAWS7116 International Sale of Goods Law	3
LAWS7091 Project Report	6
<b>Required Elective Courses</b>	
4 required elective courses from the Required Elective Course List	12
<b>Grand Total:</b>	<b>30</b>

<b>Required Elective Course List</b>	<b>Credits</b>
LAWS7117 Classics in Law	3
LAWS7118 Economic and Trade Law of Europe	3
LAWS7119 World Trade Organization Law	3
LAWS7120 Maritime Law	3
LAWS7121 Seminar of the Special Administrative Region and Public International Law	3
LAWS7122 International Arbitration	3
LAWS7123 Civil Procedure Law	3
LAWS7124 Tort Law	3
LAWS7125 Internet and Data Law	3
LAWS7126 Seminar of Civil Adjudication	3
LAWS7127 Environmental Law	3
LAWS7128 International Investment Law	3
LAWS7129 Legal Issues on "Belt and Road"	3
LAWS7130 Seminar of Hong Kong Basic Law and Hong Kong Law	3
LAWS7131 Legal System of the East Asia	3
LAWS7132 Case Studies for German Classic Private Law	3
Any one of the courses of the Master Programme offered by Faculty of Law	3

FACULTY OF LAW

# Master's Degree Programmes

## Master of Law (Portuguese Language)

### • Juridical Sciences

		Credits
<b>Compulsory Courses</b>		
LAWS7221	Civil Law I	3
LAWS7222	Civil Procedural Law I	3
LAWS7223	Commercial Law I	3
LAWS7224	Criminal Law and Criminal Procedural Law I	3
LAWS7291	Project Report	6
<b>Required Elective Courses</b> (Students are required to take any four courses from the following required elective courses)		
LAWS7225	Civil Law II	3
LAWS7226	Civil Procedural Law II	3
LAWS7227	Commercial Law II	3
LAWS7228	Criminal Law and Criminal Procedural Law II	3
LAWS7229	Chinese Private Law	3
LAWS7230	Private International Law	3
LAWS7231	History of Legal Cultures	3
LAWS7232	Health Law	3
<b>Grand Total:</b>		<b>30</b>

### • Juridical Political Sciences

		Credits
<b>Compulsory Courses</b>		
LAWS7233	Constitutional Law I	3
LAWS7234	Administrative Law I	3
LAWS7235	Public International Law I	3
LAWS7224	Criminal Law and Criminal Procedural Law I	3
LAWS7291	Project Report	6
<b>Required Elective Courses</b> (Students are required to take any four courses from the following required elective courses)		
LAWS7236	Constitutional Law II	3
LAWS7237	Administrative Law II	3
LAWS7238	Public International Law II	3
LAWS7228	Criminal Law and Criminal Procedural Law II	3
LAWS7239	Chinese Constitutional Law	3
LAWS7240	Economic Law	3
LAWS7231	History of Legal Cultures	3
LAWS7241	International Criminal Law	3
<b>Grand Total:</b>		<b>30</b>

## Master's Degree Programmes

### Master of Law in European Union Law, International Law and Comparative Law (English Language)

#### • European Union Law

	Credits
<b>Compulsory Courses</b>	
LAWS7301 Treaty Reforms in the EU	3
LAWS7302 Contemporary Issues in International Law	3
LAWS7303 Comparative Legal Systems	3
LLGC7000 Research Methodology and Legal Writing	3
LAWS7305 Institutional Law of the European Union	3
LAWS7306 Economic Law of the European Union	3
LAWS7391 Project Report	6
<b>Required Elective Courses</b>	
2 required elective courses from the Required Elective Course List	6
<b>Grand Total:</b>	<b>30</b>

#### • International Law

	Credits
<b>Compulsory Courses</b>	
LAWS7301 Treaty Reforms in the EU	3
LAWS7302 Contemporary Issues in International Law	3
LAWS7303 Comparative Legal Systems	3
LLGC7000 Research Methodology and Legal Writing	3
LAWS7307 International Economic Law	3
LAWS7308 Law of International Organizations	3
LAWS7391 Project Report	6
<b>Required Elective Courses</b>	
2 required elective courses from the Required Elective Course List	6
<b>Grand Total:</b>	<b>30</b>

#### • Comparative Law

	Credits
<b>Compulsory Courses</b>	
LAWS7301 Treaty Reforms in the EU	3
LAWS7302 Contemporary Issues in International Law	3
LAWS7303 Comparative Legal Systems	3
LLGC7000 Research Methodology and Legal Writing	3
LAWS7309 Common Law	3
LAWS7310 Comparative Contract Law	3
LAWS7391 Project Report	6
<b>Required Elective Courses</b>	
2 required elective courses from the Required Elective Course List	6
<b>Grand Total:</b>	<b>30</b>

<b>Required Elective Course List</b>		<b>Credits</b>
LAWS7322	External Law and Policy of the European Union	3
LAWS7311	EU Competition Law	3
LAWS7312	EU Environmental Law	3
LAWS7313	EU Natural Resources and Energy Law	3
LAWS7314	Foreign Investment Law	3
LAWS7315	International Criminal and Humanitarian Law	3
LAWS7316	Human Rights and Refugee Law	3
LAWS7317	Legal Culture and Legal Pluralism	3
LAWS7318	Maritime and Shipping Law	3
LAWS7319	E-commerce and Information Technology Law	3
LAWS7406	Introduction to Macau Law	3
LAWS7407	Macau and Comparative Gaming Law	3
LAWS7408	Advanced Issues of International Trade Law	3
LAWS7409	Asian Business Law	3
LAWS7410	Company Law	3
LAWS7411	Law and Society	3
LAWS7404	Intellectual Property Law in the Creative Economy	3
LAWS7412	Money Laundering and Anti-Corruption Law	3
LAWS7413	Private International Law	3
LAWS7414	Consumer Protection Law	3
LAWS7415	Commercial Contracts	3
LAWS7320	Mooting	3
LAWS7321	Seminar Series	3
Any one of the courses of the Master Programme offered by Faculty of Law		3

# Master's Degree Programmes

## Master of Law in International Business Law (English Language)

	<b>Credits</b>
<b>Compulsory Courses</b>	
LAWS7401 Transnational Law	3
LAWS7402 WTO and Regional Trade Law	3
LAWS7403 Dispute Resolution	3
LAWS7404 Intellectual Property Law in the Creative Economy	3
LLGC7000 Research Methodology and Legal Writing	3
LAWS7491 Project Report	6
<b>Required Elective Courses</b>	
3 required elective courses from the Required Elective Course List	9
<b>Grand Total:</b>	<b>30</b>

<b>Required Elective Course List</b>	<b>Credits</b>
LAWS7311 EU Competition Law	3
LAWS7312 EU Environmental Law	3
LAWS7313 EU Natural Resources and Energy Law	3
LAWS7301 Treaty Reforms in the EU	3
LAWS7314 Foreign Investment Law	3
LAWS7315 International Criminal and Humanitarian Law	3
LAWS7316 Human Rights and Refugee Law	3
LAWS7308 Law of International Organizations	3
LAWS7317 Legal Culture and Legal Pluralism	3
LAWS7309 Common Law	3
LAWS7318 Maritime and Shipping Law	3
LAWS7319 E-commerce and Information Technology Law	3
LAWS7406 Introduction to Macau Law	3
LAWS7407 Macau and Comparative Gaming Law	3
LAWS7408 Advanced Issues of International Trade Law	3
LAWS7409 Asian Business Law	3
LAWS7410 Company Law	3
LAWS7411 Law and Society	3
LAWS7412 Money Laundering and Anti-Corruption Law	3
LAWS7413 Private International Law	3
LAWS7414 Consumer Protection Law	3
LAWS7415 Commercial Contracts	3
LAWS7320 Mooting	3
LAWS7321 Seminar Series	3
Any one of the courses of the Master Programme offered by Faculty of Law	3

FACULTY OF LAW

# Master's Degree Programmes

## Master of Law in Macau Law and Practice

		Credits
<b>Compulsory Courses</b>		
LAWS7562	Macao Criminal Law	3
LAWS7563	Macao Civil and Commercial Law	3
LAWS7564	Macao Administrative Law	3
LAWS7565	Legal Research and Legal Writing	3
LAWS7567	Macao Basic Law	3
LAWS7568	Interregional Law	3
LAWS7598	Project Report	6
Students are required to take 2 required elective courses from the following courses to obtain 6 credits		
LAWS7561	Portuguese Conversation for Legal Practice	3
LAWS7566	Research of Judicial Decisions in Macao	3
LAWS7569	Macao Criminal Procedural Law	3
LAWS7604	Civil Procedure and Non-Litigation Dispute Resolution	3
<b>Grand Total:</b>		<b>30</b>

Note:

Medium of instruction: Chinese / Portuguese

# Postgraduate Certificate/Diploma Programme

## Introduction to Macau Law

		<b>Credits</b>
<b>Preparation period</b>		
LAWS6001	Portuguese Language	2
LAWS6002	Legal Language	2
LAWS6003	History of Macau	2
<b>First Quarter</b>		
LAWS6004	Legal History of Macau	2
LAWS6005	General Theory of Civil Law	4
LAWS6006	Constitutional Law	3
LAWS6007	Criminal Law	3
LAWS6008	Public International Law	2
LAWS6009	Administrative Law I	3
LAWS6010	Public Administration	2
LAWS6011	Legal Language I	2
<b>Second Quarter</b>		
LAWS6013	Public Economic Law	2
LAWS6014	Criminal Procedural Law	4
LAWS6015	Obligation Law	4
LAWS6016	Property Law	3
LAWS6017	Civil Procedural Law I	4
LAWS6018	Administrative Law II	3
LAWS6012	Legal Language II	2
<b>Third Quarter</b>		
LAWS6019	Family and Succession Law	4
LAWS6020	Commercial Law	4
LAWS6021	Private International Law	4
LAWS6022	Notary and Registry Law	2
LAWS6023	Civil Procedural Law II	4
LAWS6024	The Judicial and Legal Profession	2
LAWS6025	Legal Language III	2
<b>Grand Total:</b>		<b>71</b>

Note:

Medium of instruction: Chinese



## FACULTY OF LAW

# Bachelor's Degree Programmes

## Bachelor of Law (Chinese)

### Daytime Study Plan

Year I	Credits
LAWS1000 Introduction to Law	3
LAWS1001 Introduction to Law (Legal Practice)	1
LAWS1002 Legal History	3
LAWS1003 Constitutional Law	3
LAWS1004 Constitutional Law (Legal Practice)	1
LAWS1005 Macao Basic Law	3
LAWS1006 Macao Basic Law (Legal Practice)	1
LAWS1007 Public International Law	3
LAWS1008 Public International Law (Legal Practice)	1
PORT1002 Oral Comprehension and Production Skills I*	6
PORT1003 Written Comprehension and Production Skills I*	6
PORT1004 Oral Comprehension and Production Skills II**	6
PORT1005 Written Comprehension and Production Skills II*	6
CPED1000 Residential College Experiential learning <sup>#</sup>	1

**Total Credits:** 44

Year II	Credits
LAWS2000 General Theory of Civil Law I	3
LAWS2001 General Theory of Civil Law I (Legal Practice)	2
LAWS2002 General Theory of Civil Law II	3
LAWS2003 General Theory of Civil Law II (Legal Practice)	2
LAWS2004 Administrative Law I	3
LAWS2005 Administrative Law I (Legal Practice)	1
LAWS2006 Administrative Law II	3
LAWS2007 Administrative Law II (Legal Practice)	1
LAWS2012 Economics	3
LAWS3000 Obligation Law I	3
LAWS3046 Obligation Law I (Legal Practice)	1
LAWS4000 Family Law	3
LAWS4001 Family Law (Legal Practice)	1
LAWS4002 Patrimonial Family Law and Succession Law	3
LAWS4003 Patrimonial Family Law and Succession Law (Legal Practice)	1
PORT2006 Oral Comprehension and Production Skills III*	6
PORT2007 Written Comprehension and Production Skills III*	6
PORT2013 Written Comprehension and Production Skills IV*	6

**Total Credits:** 51

Year III	Credits
LAWS1020 Registry and Notary Law	3
LAWS3002 Obligation Law II	3
LAWS3047 Obligation Law II (Legal Practice)	1
LAWS3004 Labour Law	3
LAWS3005 Labour Law (Legal Practice)	1
LAWS3006 Commercial Law I	3

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LAWS3007	Commercial Law I (Legal Practice)	1
LAWS3008	Commercial Law II	3
LAWS3009	Commercial Law II (Legal Practice)	1
LAWS3010	Criminal Law I	3
LAWS3048	Criminal Law I (Legal Practice)	1
LAWS3012	Criminal Law II	3
LAWS3049	Criminal Law II (Legal Practice)	1
LAWS3014	Property Law	3
LAWS3015	Property Law (Legal Practice)	1
LAWS3016	Administrative Law III	3
LAWS3017	Administrative Law III (Legal Practice)	1
LAWS3018	Civil Procedural Law I	3
LAWS3050	Civil Procedural Law I (Legal Practice)	1
Required Elective Courses (List A)		6

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**Total Credits:** **45**

Year IV		Credits
LAWS1027	Introduction to Alternative Dispute Resolution	3
LAWS4004	Commercial Law III	3
LAWS4005	Commercial Law III (Legal Practice)	1
LAWS4006	Private International Law	3
LAWS4007	Private International Law (Legal Practice)	1
LAWS4008	Criminal Procedural Law	3
LAWS4009	Criminal Procedural Law (Legal Practice)	1
LAWS4010	Political Science	3
LAWS4011	Civil Procedural Law II	3
LAWS4050	Civil Procedural Law II (Legal Practice)	1
LAWS4013	Civil Procedural Law III	3
LAWS4014	Civil Procedural Law III (Legal Practice)	1
LAWS4034	Legal Consequences of Crime	3
LAWS4035	Legal Consequences of Crime (Legal Practice)	1
Required Elective Course (List B)		3

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**Total Credits:** **33**

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**Grand Total:** **173**

#### **List A of Required Elective Courses:**

Students are required to complete 6 credits of Required Elective Courses from List A.

		Credits
LAWS1016	Public Economics	3
LAWS1017	Tax Law	3
LAWS1021	Forensic Medicine	3
LAWS1023	Juridical Practice	3
LAWS1024	General Theory of Chinese Law	3
LAWS1026	Portuguese Legal Language	3

**List B of Required Elective Courses:**

Students are required to complete 3 credits of Required Elective Course from List B. Internship is an internship course while Court Observation and Research Report are research courses. The minimum and maximum internship hours for the internship course "Internship" are 160 and 180 hours respectively.

		<b>Credits</b>
LAWS4055	Court Observation	3
LAWS4056	Internship	3
LAWS5012	Research Report	3

Notes:

\* Portuguese language courses.

# In the case of course waiver on the course "CPED1000-Residential College Experiential Learning", students will be required to take the course "LAWS1015-Enhancement Learning Activities" in order to fulfil the credit requirement.

# Bachelor's Degree Programmes

## Bachelor of Law (Chinese)

### Evening Study Plan

<b>Year I</b>	<b>Credits</b>
LAWS1000 Introduction to Law	3
LAWS1001 Introduction to Law (Legal Practice)	1
LAWS1002 Legal History	3
LAWS1003 Constitutional Law	3
LAWS1004 Constitutional Law (Legal Practice)	1
LAWS1005 Macao Basic Law	3
LAWS1006 Macao Basic Law (Legal Practice)	1
PORT1002 Oral Comprehension and Production Skills I*	6
PORT1003 Written Comprehension and Production Skills I*	6
PORT1004 Oral Comprehension and Production Skills II*	6
PORT1005 Written Comprehension and Production Skills II*	6
CPED1000 Residential College Experiential learning <sup>#</sup>	1

**Total Credits:** **40**

<b>Year II</b>	<b>Credits</b>
LAWS1007 Public International Law	3
LAWS1008 Public International Law (Legal Practice)	1
LAWS2000 General Theory of Civil Law I	3
LAWS2001 General Theory of Civil Law I (Legal Practice)	2
LAWS2002 General Theory of Civil Law II	3
LAWS2003 General Theory of Civil Law II (Legal Practice)	2
LAWS2004 Administrative Law I	3
LAWS2005 Administrative Law I (Legal Practice)	1
LAWS2006 Administrative Law II	3
LAWS2007 Administrative Law II (Legal Practice)	1
LAWS2012 Economics	3
LAWS3004 Labour Law	3
LAWS3005 Labour Law (Legal Practice)	1
PORT2007 Written Comprehension and Production Skills III*	6
PORT2013 Written Comprehension and Production Skills IV*	6

**Total Credits:** **41**

<b>Year III</b>	<b>Credits</b>
LAWS3000 Obligation Law I	3
LAWS3046 Obligation Law I (Legal Practice)	1
LAWS3002 Obligation Law II	3
LAWS3047 Obligation Law II (Legal Practice)	1
LAWS3010 Criminal Law I	3
LAWS3048 Criminal Law I (Legal Practice)	1
LAWS3012 Criminal Law II	3
LAWS3049 Criminal Law II (Legal Practice)	1
LAWS3014 Property Law	3
LAWS3015 Property Law (Legal Practice)	1

LAWS3016	Administrative Law III	3
LAWS3017	Administrative Law III (Legal Practice)	1
PORT2006	Oral Comprehension and Production Skills III**	6
Required Elective Course (List A)		3

**Total Credits:** 33

<b>Year IV</b>		<b>Credits</b>
LAWS1020	Registry and Notary Law	3
LAWS3006	Commercial Law I	3
LAWS3007	Commercial Law I (Legal Practice)	1
LAWS3008	Commercial Law II	3
LAWS3009	Commercial Law II (Legal Practice)	1
LAWS3018	Civil Procedural Law I	3
LAWS3050	Civil Procedural Law I (Legal Practice)	1
LAWS4000	Family Law	3
LAWS4001	Family Law (Legal Practice)	1
LAWS4002	Patrimonial Family Law and Succession Law	3
LAWS4003	Patrimonial Family Law and Succession Law (Legal Practice)	1
LAWS4011	Civil Procedural Law II	3
LAWS4050	Civil Procedural Law II (Legal Practice)	1
LAWS4034	Legal Consequences of Crime	3
LAWS4035	Legal Consequences of Crime (Legal Practice)	1
Required Elective Course (List A)		3

**Total Credits:** 34

<b>Year V</b>		<b>Credits</b>
LAWS1027	Introduction to Alternative Dispute Resolution	3
LAWS4004	Commercial Law III	3
LAWS4005	Commercial Law III (Legal Practice)	1
LAWS4006	Private International Law	3
LAWS4007	Private International Law (Legal Practice)	1
LAWS4008	Criminal Procedural Law	3
LAWS4009	Criminal Procedural Law (Legal Practice)	1
LAWS4010	Political Science	3
LAWS4013	Civil Procedural Law III	3
LAWS4014	Civil Procedural Law III (Legal Practice)	1
Required Elective Course (List B)		3

**Total Credits:** 25

**Grand Total:** 173

#### List A of Required Elective Courses:

Students are required to complete 6 credits of Required Elective Courses from List A.

		<b>Credits</b>
LAWS1016	Public Economics	3
LAWS1017	Tax Law	3
LAWS1021	Forensic Medicine	3
LAWS1023	Juridical Practice	3
LAWS1024	General Theory of Chinese Law	3
LAWS1026	Portuguese Legal Language	3

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**List B of Required Elective Courses:**

Students are required to complete 3 credits of Required Elective Course from List B. Internship is an internship course while Court Observation and Research Report are research courses. The minimum and maximum internship hours for the internship course "Internship" are 160 and 180 hours respectively.

		<b>Credits</b>
LAWS4055	Court Observation	3
LAWS4056	Internship	3
LAWS5012	Research Report	3

Notes:

\* Portuguese language courses

# In the case of course waiver on the course "CPED1000-Residential College Experiential Learning", students will be required to take the course "LAWS1015-Enhancement Learning Activities" in order to fulfil the credit requirement.

## FACULTY OF LAW

# Bachelor's Degree Programmes

## Bachelor of Law (Chinese and Portuguese)

Year I		Credits
LAWS1000	Introduction to Law <sup>^</sup>	3
LAWS1001	Introduction to Law (Legal Practice) <sup>^</sup>	1
LAWS1002	Legal History <sup>^</sup>	3
LAWS1003	Constitutional Law <sup>#</sup>	3
LAWS1004	Constitutional Law (Legal Practice) <sup>#</sup>	1
LAWS1005	Macao Basic Law <sup>#</sup>	3
LAWS1006	Macao Basic Law (Legal Practice) <sup>#</sup>	1
LAWS1007	Public International Law <sup>^</sup>	3
LAWS1008	Public International Law (Legal Practice) <sup>^</sup>	1
PORT1002	Oral Comprehension and Production Skills I*	6
PORT1003	Written Comprehension and Production Skills I*	6
PORT1004	Oral Comprehension and Production Skills II*	6
PORT1005	Written Comprehension and Production Skills II*	6
CPED1000	Residential College Experiential learning <sup>##</sup>	1
<b>Total Credits:</b>		<b>44</b>

Year II		Credits
PORT2006	Oral Comprehension and Production Skills III*	6
PORT2007	Written Comprehension and Production Skills III*	6
PORT2012	Oral Comprehension and Production Skills IV*	6
PORT2013	Written Comprehension and Production Skills IV*	6
PORT3019	Advanced Comprehension and Production Skills I*	3
PORT3020	Advanced Comprehension and Production Skills II*	3
<b>Total Credits:</b>		<b>30</b>

Year III		Credits
LAWS2000	General Theory of Civil Law I <sup>^</sup>	3
LAWS2001	General Theory of Civil Law I (Legal Practice) <sup>^</sup>	2
LAWS2002	General Theory of Civil Law II <sup>^</sup>	3
LAWS2003	General Theory of Civil Law II (Legal Practice) <sup>^</sup>	2
LAWS2004	Administrative Law I <sup>^</sup>	3
LAWS2005	Administrative Law I (Legal Practice) <sup>^</sup>	1
LAWS2006	Administrative Law II <sup>^</sup>	3
LAWS2007	Administrative Law II (Legal Practice) <sup>^</sup>	1
LAWS2012	Economics	3
LAWS3000	Obligation Law I <sup>^</sup>	3
LAWS3046	Obligation Law I (Legal Practice) <sup>^</sup>	1
LAWS4000	Family Law <sup>^</sup>	3
LAWS4001	Family Law (Legal Practice) <sup>^</sup>	1
LAWS4002	Patrimonial Family Law and Succession Law <sup>^</sup>	3
LAWS4003	Patrimonial Family Law and Succession Law (Legal Practice) <sup>^</sup>	1
Required Elective Course (List A)		3
<b>Total Credits:</b>		<b>36</b>

<b>Year IV</b>	<b>Credits</b>
LAWS1020 Registry and Notary Law <sup>^</sup>	3
LAWS3002 Obligation Law II <sup>^</sup>	3
LAWS3047 Obligation Law II (Legal Practice) <sup>^</sup>	1
LAWS3004 Labour Law <sup>^</sup>	3
LAWS3005 Labour Law (Legal Practice) <sup>^</sup>	1
LAWS3006 Commercial Law I <sup>^</sup>	3
LAWS3007 Commercial Law I (Legal Practice) <sup>^</sup>	1
LAWS3008 Commercial Law II <sup>^</sup>	3
LAWS3009 Commercial Law II (Legal Practice) <sup>^</sup>	1
LAWS3010 Criminal Law I <sup>^</sup>	3
LAWS3048 Criminal Law I (Legal Practice) <sup>^</sup>	1
LAWS3012 Criminal Law II <sup>^</sup>	3
LAWS3049 Criminal Law II (Legal Practice) <sup>^</sup>	1
LAWS3014 Property Law <sup>^</sup>	3
LAWS3015 Property Law (Legal Practice) <sup>^</sup>	1
LAWS3016 Administrative Law III <sup>^</sup>	3
LAWS3017 Administrative Law III (Legal Practice) <sup>^</sup>	1
LAWS3018 Civil Procedural Law I <sup>^</sup>	3
LAWS3050 Civil Procedural Law I (Legal Practice) <sup>^</sup>	1
Required Elective Course (List A)	3

**Total Credits:** **42**

<b>Year V</b>	<b>Credits</b>
LAWS1027 Alternative Dispute Resolution <sup>^</sup>	3
LAWS4004 Commercial Law III <sup>^</sup>	3
LAWS4005 Commercial Law III (Legal Practice) <sup>^</sup>	1
LAWS4006 Private International Law <sup>^</sup>	3
LAWS4007 Private International Law (Legal Practice) <sup>^</sup>	1
LAWS4008 Criminal Procedural Law <sup>^</sup>	3
LAWS4009 Criminal Procedural Law (Legal Practice) <sup>^</sup>	1
LAWS4010 Political Science	3
LAWS4011 Civil Procedural Law II <sup>^</sup>	3
LAWS4050 Civil Procedural Law II (Legal Practice) <sup>^</sup>	1
LAWS4013 Civil Procedural Law III <sup>^</sup>	3
LAWS4014 Civil Procedural Law III (Legal Practice) <sup>^</sup>	1
LAWS4034 Legal Consequences of Crime	3
LAWS4035 Legal Consequences of Crime (Legal Practice)	1
Required Elective Course (List B)	3

**Total Credits:** **33**

**Grand Total:** **Credits**  
**185**

#### List A of Required Elective Courses:

Students are required to complete 6 credits of Required Elective Courses from List A.

	<b>Credits</b>
LAWS1016 Public Economics	3
LAWS1017 Tax Law	3
LAWS1021 Forensic Medicine	3
LAWS1023 Juridical Practice	3
LAWS1024 General Theory of Chinese Law	3
LAWS1026 Portuguese Legal Language	3



### List B of Required Elective Courses:

Students are required to complete 3 credits of Required Elective Course from List B. Internship is an internship course while Court Observation is a research course. The minimum and maximum internship hours for the internship course "Internship" are 160 and 180 hours respectively.

		<b>Credits</b>
LAWS4055	Court Observation	3
LAWS4056	Internship	3

Notes:

\* Portuguese language courses.

^ Compulsory legal courses: If a student's mother tongue is Chinese, they must complete at least 40% of the compulsory legal courses in Portuguese. Conversely, if a student's mother tongue is Portuguese, they are required to complete at least 40% of the compulsory legal courses in Chinese.

## In the case of course waiver on the course "CPED1000-Residential College Experiential Learning", students will be required to take the course "LAWS1015-Enhancement Learning Activities" in order to fulfil the credit requirement.

# Bachelor's Degree Programmes

## Bachelor of Law (Portuguese)

<b>Year I</b>		<b>Credits</b>
LAWS1000	Introduction to Law	3
LAWS1001	Introduction to Law (Legal Practice)	1
LAWS1002	Legal History	3
LAWS1003	Constitutional Law	3
LAWS1004	Constitutional Law (Legal Practice)	1
LAWS1005	Macao Basic Law	3
LAWS1006	Macao Basic Law (Legal Practice)	1
LAWS1009	Economics I	3
LAWS1010	Economics II	3
LAWS2000	General Theory of Civil Law I	3
LAWS2001	General Theory of Civil Law I (Legal Practice)	2
LAWS2002	General Theory of Civil Law II	3
LAWS2003	General Theory of Civil Law II (Legal Practice)	2
CPED1000	Residential College Experiential Learning <sup>#</sup>	1

**Total Credits:** **32**

<b>Year II</b>		<b>Credits</b>
LAWS1007	Public International Law	3
LAWS1008	Public International Law (Legal Practice)	1
LAWS1017	Tax Law	3
LAWS2004	Administrative Law I	3
LAWS2005	Administrative Law I (Legal Practice)	1
LAWS2006	Administrative Law II	3
LAWS2007	Administrative Law II (Legal Practice)	1
LAWS2013	Public Economics	4
LAWS3000	Obligation Law I	3
LAWS3046	Obligation Law I (Legal Practice)	1
LAWS3002	Obligation Law II	3
LAWS3047	Obligation Law II (Legal Practice)	1
LAWS3004	Labour Law	3
LAWS3005	Labour Law (Legal Practice)	1
LAWS3010	Criminal Law I	3
LAWS3048	Criminal Law I (Legal Practice)	1
LAWS3012	Criminal Law II	3
LAWS3049	Criminal Law II (Legal Practice)	1
LAWS3051	Legal English I	3
LAWS3052	Legal English II	3

**Total Credits:** **45**

<b>Year III</b>		<b>Credits</b>
LAWS1020	Registry and Notary Law	3
LAWS3006	Commercial Law I	3
LAWS3007	Commercial Law I (Legal Practice)	1
LAWS3014	Property Law	3
LAWS3015	Property Law (Legal Practice)	1
LAWS3016	Administrative Law III	3

LAWS3017	Administrative Law III (Legal Practice)	1
LAWS3018	Civil Procedural Law I	3
LAWS3050	Civil Procedural Law I (Legal Practice)	1
LAWS4000	Family Law	3
LAWS4001	Family Law (Legal Practice)	1
LAWS4002	Patrimonial Family Law and Succession Law	3
LAWS4003	Patrimonial Family Law and Succession Law (Legal Practice)	1
LAWS4008	Criminal Procedural Law	3
LAWS4009	Criminal Procedural Law (Legal Practice)	1
LAWS4011	Civil Procedural Law II	3
LAWS4050	Civil Procedural Law II (Legal Practice)	1

**Total Credits:** **35**

**Year IV** **Credits**

LAWS1027	Introduction to Alternative Dispute Resolution	3
LAWS3008	Commercial Law II	3
LAWS3009	Commercial Law II (Legal Practice)	1
LAWS4004	Commercial Law III	3
LAWS4005	Commercial Law III (Legal Practice)	1
LAWS4006	Private International Law	3
LAWS4007	Private International Law (Legal Practice)	1
LAWS4013	Civil Procedural Law III	3
LAWS4014	Civil Procedural Law III (Legal Practice)	1
LAWS5000	General Theory of Chinese Law	4
LAWS5003	Research Report*	1
LAWS5004	Research and Communication Skills	1
Required Elective Courses		9

**Total credits:** **34**

**Credits**

**Grand Total:** **146**

**List of Required Elective Courses:**

Students are required to complete a total of 9 credits of Required Elective Courses from the list.

		Credits
LAWS1019	Environmental Law	3
LAWS1021	Forensic Medicine	3
LAWS1022	Special Part of Criminal Law	3
LAWS1023	Juridical Practice	3
LAWS4051	General Theory of Law	3
LAWS4052	Comparative Law	3
LAWS4053	Banking Law	3
LAWS4054	Civil Contracts	3

Notes:

\* Research Course

# In the case of course waiver on the course "CPED1000-Residential College Experiential Learning", students will be required to take the course "LAWS1015-Enhancement Learning Activities" in order to fulfil the credit requirement.

# Bachelor's Degree Programmes

## Bachelor of Law in Chinese Law and Global Legal Studies

Year I	Credits
LAWS1055 Chinese Legal History	3
LAWS1056 Constitutional Law	3
LAWS1057 Macao and Hong Kong Basic Law	3
LAWS1058 Jurisprudence	3
LAWS1059 Legal Language	3
LAWS1060 Law, Economics and Society	3
LAWS1061 International Law	3
LAWS1062 Criminal Law I	3
LAWS1063 Civil Law I: General Principles	3
CPED1000 Residential College Experiential Learning <sup>#</sup>	1
GEGA1000 Macao and Chinese Civilization	3
GELH1000 Chinese Language and Culture	3
Languages and Skills: English Language Courses / Free Electives	6
<b>Total credits:</b>	<b>40</b>

Year II	Credits
LAWS2015 Civil Law II: Contract and Tort	3
LAWS2016 Criminal Law II: Special Principles	3
LAWS2017 Administrative Law and Procedure I	3
LAWS2018 World Trade Organization (WTO) and Regional Trade Law	3
LAWS2019 International Human Rights Law	3
LAWS2020 Civil Procedure Law	3
LAWS2021 Criminal Procedure Law	3
LAWS2022 Common Law and Equity	3
LAWS2023 Administrative Law and Procedure II	3
LAWS2024 Global Business Law	3
GEST1002 Quantitative Reasoning for Social Sciences	3
GESB1001 Applied Ethics	1
GESB1002 Foundations of Moral Values	1
GESB1003 Law and Society	1
Languages and Skills: English Language Course / Free Elective	3
<b>Total credits:</b>	<b>39</b>

Year III	Credits
LAWS3034 Civil Law III: Property Law	3
LAWS3035 Family Law and Succession Law	3
LAWS3036 Mooting, Mock Trials and Advocacy Skills	3
LAWS3037 International Investment Law	3
LAWS3038 Law of Evidence	3
LAWS3039 Law, Language and Logic	3
LAWS3040 Private International Law	3
LAWS3041 Law, Science and Technology	3
LAWS3042 Intellectual Property Law	3
LAWS3043 Legal Research and Drafting	3

LAWS3044	Comparative Law	3
LAWS3045	Legal Practice and Professional Internship*	3
2 Required Electives		6

**Total credits:** 42

<b>Year IV</b>		<b>Credits</b>
LAWS4040	Maritime and Shipping Law	3
LAWS4041	Fiscal and Taxation Law	3
LAWS4042	International Adjudication and Alternative Dispute Resolution	3
LAWS4043	Company Law	3
LAWS4044	Personality Rights and Cyberspace	3
LAWS4045	Legal Ethics	3
LAWS4046	Labour Law and Social Security	3
LAWS4047	Law of the Environment and Natural Resources	3
LAWS4048	Belt and Road, BRICS Cooperation and Development Law	3
LAWS4049	Major Legal Issues of the Greater Bay Area	3
3 Required Electives		9

**Total credits:** 39

**Grand Total:** 160

<b>List of Required Elective Courses</b>		<b>Credits</b>
LAWS2025	Law of the European Union	3
LAWS2026	Global Health Governance and Law	3
LAWS2027	Global Immigration and Law	3
LAWS2028	Advanced Legal Philosophy	3
LAWS2029	Transnational Law and the Law Merchant	3
LAWS2030	Comparative Commercial Contracts	3
LAWS2031	Cross Border Insolvency Law	3
LAWS2032	International Air and Space Law	3
LAWS2033	International Taxation and Anti-Money Laundering Law	3
LAWS2034	Global Risk Management and Insurance Law	3
LAWS2035	Comparative Company Law	3
LAWS2036	Law of Securities and Negotiable Instruments	3
LAWS2037	Competition Law (Consumer Protection and Innovation)	3
LAWS2038	Trust Law	3
LAWS2039	Legal Clinic	3
LAWS2040	E-Commerce and Information Technology Law	3
LAWS2041	Law of Legislation	3

Notes:

Medium of instruction: English

\* In the case of course waiver on the course "CPED1000-Residential College Experiential Learning", students will be required to take the course "LAWS1015-Enhancement Learning Activities" in order to fulfil the credit requirement.

\* Internship Course

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## Course Description

### DOCTOR OF PHILOSOPHY IN LAW

#### **LAWS8001 LEGAL RESEARCH AND WRITING**

This course is designed to teach PhD students advanced legal research and writing skills. It is taught by a group of PhD supervisors mainly from the FLL. Depending on availability, high caliber legal academics from other law schools may also be invited to join the teaching team on a case by case basis. The course covers a wide range of topics of legal research and writing, such as jurisprudence, legal research methodologies, use of library resources, legal reasoning, preparation and writing of law journal articles, preparation and writing of PhD thesis, use of references, formality for legal writing, and critical legal thinking.

Pre-requisite: None

#### **LAWS8002 RESEARCH ETHICS**

This course will be conducted online starting from Academic Year 2016/2017. For PhD students who were admitted in or before Academic Year 2015/2016 and have not taken or have not passed Research Ethics, students will take the online Research Ethics course offered in or after Academic Year 2016/2017. One credit will be assigned to their online Research Ethics course for the aforementioned students to fulfill the credit requirements for graduation.

Pre-requisite: None

#### **LAWS8003 COMPARATIVE LEGAL SYSTEM**

This course purports to offer advanced knowledge of comparative legal studies to PhD students. The FLL is strong in comparative law studies, which is also one of special strengths the FLL will further improve as part of FLL's strategic development plan. The course is taught in the mode of group teaching. Experts of different legal systems will share their knowledge with students in a number of essential areas of legal studies, such as constitutional law, civil law, commercial law, criminal law, procedural law, tort law, administrative law and private international law. The specific legal systems to be presented may vary slightly depending on availability of experts in any given time, and the general legal systems to be covered in many countries.

Pre-requisite: None

#### **LAWS8004 COMPARATIVE JUDICIAL SYSTEM**

This seminar is designed to give the students deep understanding of judicial systems in different legal traditions of the world. The course will especially focus on Mainland China, Taiwan, and Japan as representing the civil law tradition and Canada, Australia, and the U.S as representing the common law tradition. The students can learn the similarity and difference between these two legal traditions through examinations of historical background, constitutional system, judicial review, judicial system, legal profession, interpretation and judicial process and civil and criminal procedure.

Pre-requisite: None

#### **LAWS8999 DOCTORAL THESIS**

The PhD candidate must present a doctoral dissertation on a topic related to his or her area of specialization that demonstrates the results of original research and shows evidence of legal scholarship. According to the current regulations, the doctoral dissertation must be approved by the supervisor and PhD advisory committee. PhD dissertation must be submitted to the faculty in conformity with the requirement of thesis format. PhD oral defence examination should strictly follow the guidelines of the Graduate School and Faculty of Law.

Pre-requisite: None

## MASTER OF LAW (CHINESE LANGUAGE)

### **LAWS7101 CONSTITUTIONAL LAW**

Theories and current status of contemporary theories of constitutional law; development of basic principles, content and of the functions of constitutional law; comparative studies on the principles, forms, characteristics, content and functions of political systems of the states; comparative studies on the principles, content, procedures and methods of the systems of election; comparative studies on the content, characteristics and development of the systems of human rights; comparative studies on the organization, formation, functions and powers (legislative power and supervisory power) of the system of legislation and the procedure of legislation; comparative studies on the organization, formation, functions and powers (efficiency and legitimacy), principles of operation of the administrative system and the development of political power; comparative studies on the organization, characteristics, independence and functions of the judicial system; comparative studies on the constitutional safeguards, constitutional construction and examination of violation of the constitution.

Pre-requisite: None

### **LAWS7102 MACAO BASIC LAW**

Survey on theory of "One Country and Two Systems" and the Basic Law. Analysis the new issues arising from the practice. Subjects for discussion include relations between Government and the Special Administration regions, political, social, economic and cultural system and the relevant legal system.

Pre-requisite: None

### **LAWS7103 ADMINISTRATIVE LAW AND ADMINISTRATIVE LITIGATION LAW**

I. Historical evolution of administrative law. II. Sources of administrative law. III. Principles of administrative law and their new development. IV. Administrative organizations and civil servants law. V. Administrative act, classification of administrative acts, determinative nature of administrative act and its force of enforcement. VI. Administrative procedure. VII. Effectiveness of administrative act and errors in administrative act. VIII. Administrative litigation, jurisdiction of judicial organs, scope of administrative litigation, adjudication procedure, and remedy mechanism to verdict in administrative litigation.

Pre-requisite: None

### **LAWS7104 ADMINISTRATIVE LAW AND ADMINISTRATIVE LITIGATION LAW**

Many philosophical issues arise in connection with how we solve legal questions. This course introduces students to these issues and encourages critical thinking about them. Several questions are explored, such as: what is law, the types of law, obligation or right, the relationship between law, morality, authority, and politics, and the rule of law.

Pre-requisite: None

### **LAWS7105 CRIMINAL LAW**

I. Historical evolution of criminal law theories in the Continental Legal Family. II. Development and improvement of basic principles of the criminal law. III. Theories and schools of the constituent elements of crime. IV. Theories and laws on inchoate crime. V. Theories and laws on joint crime. VI. Theories and laws on justifications. VII. Evolution, functions and purposes of punishment. VIII. Classification and laws of punishment. IX. Theories and laws on the application of punishment. X. Theories and laws on the execution of punishment. XI. Theories and laws on the system of the specific part of the criminal law.

Pre-requisite: None

### **LAWS7106 CRIMINAL PROCEDURAL LAW**

Provisions in the Code of Criminal Procedure of Macao and theories of criminal procedure, models of criminal procedure, international human rights standards in criminal procedure, the power of investigation and its limits, systems of public prosecution and various models fair trial principles, the rights and responsibilities of the accused person, defense and legal aid, the

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system of evidence and exclusion of evidence, the rights and status of the victim, international mutual assistance in criminal matters, relevant trends and development in China and other jurisdictions, and other important topics.

Pre-requisite: None

### **LAWS7107 CRIMINOLOGY AND CRIMINAL JUSTICE**

This course is to familiarize students with the major issues in the field of criminology, i.e., various approaches to criminology, concepts of crime and law, theories of crime causation, types of crime, and the criminal justice system. In other words, we are studying the what, why and how of crime and justice. The course is characterized by class discussions, presentations, mini-lectures, guest lectures, field trips, videos, and a major research project.

Pre-requisite: None

### **LAWS7108 FOREIGN CRIMINAL LAW**

I. General theory and principles of comparative criminal law. II. Characteristics of criminal law in Common Law System and Civil Law System. III. Comparative study on crimes and punishments in the main countries around the world. IV. The judicial organizations and its positions, powers and obligations in the main countries in the world. V. The status and rights of the accused, victims, witnesses, lawyers, etc. in the main countries in the world.

Pre-requisite: None

### **LAWS7109 PROPERTY LAW**

This course discusses the distinctive property law in different legal systems. It contains introduction of property rights in general, internal principles, external principles, characteristics of real property rights, possession systems, special real property rights (*ius in rem*) (definitive order of dominance), real property rights of use and so on.

Pre-requisite: None

### **LAWS7110 CONTRACT LAW**

This course discusses contract law in different countries and areas. It discusses mainly: general principles, formation, vitiating factors, exemption clauses, performance, discharge, breach, remedies and so on.

Pre-requisite: None

### **LAWS7111 COPYRIGHT AND INDUSTRIAL PROPERTY LAW**

With the rapid development of technologies and international trade, intellectual property (IP) has become one of the most important area in the study of the laws. This course aims to study the IP systems of the four regions and see how each system is similar or different from each other, whether the current IP system serves the need of the area, and how to propose an IP system that will increase the competitiveness for Greater China area.

Pre-requisite: None

### **LAWS7112 BIOTECHNOLOGY LAW AND POLICY**

This course will examine a variety of legal, policy, and ethical issues related to biotechnology and society. Course topics will include examinations of genetically modified organisms, patenting genes, genetic testing, stem cell, and medical tourism from a variety of jurisdictions. The class also discusses the role of social media in informing the public of biotech knowledge and shaping the relevant public debate. This class is informative for anyone who are interested in exploring legal and ethical issues associated with the cutting-edge biotechnology. The issues are examined in a non-technical manner so the class is accessible for students of any backgrounds.

Pre-requisite: None

### **LAWS7113 TRADE AND INVESTMENT LAW OF CHINA AND PORTUGUESE – SPEAKING COUNTRIES**

Combining closely the three engines of cooperation between China and the Portuguese-



speaking countries (trade, investment and finance), the course uses a country-specific approach and addresses the real problems encountered by the Chinese enterprises in Brazil, Portugal and other lusophone countries. It scrutinizes the legal issues and risk aversion in the fields of energy and resources, infrastructure construction, agriculture, manufacturing, scientific and technological innovation, and information technologies. Topics cover commercial law, merger and acquisition, fiscal law, environmental law, labor law, energy law, administrative concession, technology transfer and dispute resolutions.

Pre-requisite: None

### **LAWS7114 INTERNATIONAL PRIVATE LAW**

I. General theories of private international law (definitions, scope, origins, nature and history of private international law: subject of private international law, status of aliens in civil and commercial law, etc.). II. Conflict law (conflict of laws, rules of conflict law and application, applicable law and its determination: status and capacity of persons, act in law, agent, limitation, relationship of real right, relationship of intellectual property right, relationship of obligation, family relationship, relationship of succession and application of relevant laws). III. International unified substantial private law (general introduction to international unified substantial private law, international sale of goods, international cargo transportation, international insurance, international payment, international guarantee, international protection of intellectual property rights). IV. Resolution of international civil and commercial disputes (definitions of international civil and commercial disputes, ADR, international civil and commercial conciliation, international civil and commercial mediation, international commercial arbitration and international civil litigation).

Pre-requisite: None

### **LAWS7115 COMMERCIAL ORGANIZATIONAL LAW**

This course focuses on different legal regulation concerning the private companies and public companies in distinctive countries and areas and discusses the major trends in commercial organizational law. All major issues of this course will be covered, including fundamental concepts (types of companies; limited liability; capital maintenance), the creation of companies, the capital, the shares, the organs of companies, the rights and obligations of shareholders, and the dissolution and liquidation of companies.

Pre-requisite: None

### **LAWS7116 INTERNATIONAL SALE OF GOODS LAW**

This course is designed to help students understand the definition and sources of international sale of goods law, and the legal issues arising for the buyers and the sellers, in an international sale of goods transaction. It will examine the laws governing the international sale of goods, such as the Unidroit Principles, the United Nations Convention on the International Sale of Goods (CISG), and the International Chamber of Commerce (ICC).

Pre-requisite: None

### **LAWS7091 PROJECT REPORT**

The Project Report serves the purpose of demonstrating the ability to identify, discuss and summarize any legal topic, ideally of present practical relevance, as well as to evidence basic writing skills and in-depth knowledge in the selected legal field. To successfully complete the Project Report, a Faculty member competent in the selected legal field tutors the progress and finally approves the report.

Pre-requisite: None

### **LAWS7117 CLASSICS IN LAW**

This course introduces students to great books, articles or judicial decisions in legal history. The students are required to read closely and critically one or two texts for each class. These classics will include, but not limited to: Hobbes, Rousseau, Hume, Bentham, Mill, Kelsen, Hart, Rawls, Dworkin. The course may also discuss Kant, Schmitt, Hayek, and other authors; or great judicial decisions in history.

Pre-requisite: None

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### **LAWS7118 ECONOMIC AND TRADE LAW OF EUROPE**

General Theories of Regional Economic Integration, Custom Unions of the EU, Free Movement of Persons within the EU, Freedom of Establishment and Services in the EU, European Monetary Union, Common Competition Rules of the EU, the EU Competences in Its External Economic and Trade Cooperation, Anti-Dumping and countervailing Rules of the EU, Safeguard Measures of the EU, Economic and Trade Relations between the EU and China as well as Macao.

Pre-requisite: None

### **LAWS7119 WORLD TRADE ORGANIZATION LAW**

The course is designed to offer an opportunity to students to pursue further studies in the area of WTO law. Contemporary legal issues of WTO law, in particular those which may have significant implications to Macao, Mainland China, Hong Kong and Taiwan are analyzed and discussed. Students' participation in class discussions is expected and encouraged.

Pre-requisite: None

### **LAWS7120 MARITIME LAW**

The course is designed to offer an opportunity to students to pursue further studies in the area of maritime law and shipping law. Contemporary legal issues and recent developments in the area of maritime law are discussed. Case study and class discussion are emphasized during the seminars. Special reference are to be made to Macao, Mainland China, Hong Kong, Taiwan and other neighboring economies, when appropriate.

Pre-requisite: None

### **LAWS7121 SEMINAR OF THE SPECIAL ADMINISTRATIVE REGION AND PUBLIC INTERNATIONAL LAW**

I. History of international law and theories of international law; historical evolution of international law; compilation of international law; theoretical schools of international law. II. Theories on the law of treaties and international treaties. III. Theories on the subjects in international law; theories and practice of recognition and succession in international law. IV. Issues in international law on Macao. China's Sovereignty and Macao Special Administrative Region. The differences between treaties signed by central government and Macao. The status of Macao SAR in international organizations. V. International human rights law; development of international human rights law; influence of international human rights law on traditional international law. VI. New development in contemporary law of the sea. VII. Territorial air and the law of outer space. VIII. Diplomatic law and consular law. IX. Law on international organizations: the role of the United Nations, issues in amending the Charter of the United Nations, China and the United Nations and other international organizations. X. Resolution of international disputes, analyses of judgment on cases by the United Nations International Court.

Pre-requisite: None

### **LAWS7122 INTERNATIONAL ARBITRATION**

This course addresses arbitration as an alternative means to resolve international commercial disputes, and introduce some important organizations involved in the international arbitration, as well as their arbitration procedure issues, respectively.

Pre-requisite: None

### **LAWS7123 CIVIL PROCEDURE LAW**

This course discusses the different system of civil procedure law in different countries and areas. It includes the introduction of civil procedure law, general frame of the action in civil jurisdiction, the right to a legal action, legal classification of the actions, concepts and features, interpretation and integration. Application in time and in space, theory and structure of procedural relation, the procedural act, dynamics of the procedural relation, formalities of the Ordinary Declaratory Process and so on.

Pre-requisite: None

### **LAWS7124 TORT LAW**

This course will attempt to explain some of the basic rules which under the law of tort. First of all, the students shall have a critical knowledge of the general principles such as the constituting liability and methods of assuming liability after finishing this course. Meanwhile, this course shall introduce some specific areas of tort law, including the product liability, liability for motor vehicle traffic accident, liability for medical malpractice, liability for environmental pollution, liability for ultrahazardous activity, liability for harm caused by domestic animal, liability for harm caused by object, etc.

Pre-requisite: None

### **LAWS7125 INTERNET AND DATA LAW**

This course mainly focuses on two overlapping areas from the comparative law perspective: Internet law and Data law. Internet Law is also known as Cyber Law, referring to the area of law that deals with the Internet's relationship to technological and electronic elements. Data Law is also named as Data Protection Law, teaching students the hybrid nature of data protection, data security, data exports, the rights of individuals, sensitive personal data, outsourcing personal data processing, and so on.

Pre-requisite: None

### **LAWS7126 SEMINAR OF CIVIL ADJUDICATION**

The mission of this course is to build a bridge from the knowledge and principles in textbooks to the effective practice of law. As a training course, the teachers aim to help postgraduate students enrich their ability of legal analysis. The course shall offer students hands-on experience with analyzing the civil cases. Through the training of doing research in 'hard cases', students could advance their skills in theoretical debate, as well as extracurricular clinic training.

Pre-requisite: None

### **LAWS7127 ENVIRONMENTAL LAW**

In light of the growing global concern for a sustainable development, this course covers the central laws and international bodies concerning the protection of the environment. As a cross-sectional problem the protection of the environment poses a multidisciplinary challenge of both local and global relevance. Therefore, this course discusses several urgent environmental problems, such as climate change, exhausting of nature resources, pollution of the air, water and the sea, and identifies the relevant legal responses to them and critically connects them to the global institutional framework set since the adoption of the United Nations Charter.

Pre-requisite: None

### **LAWS7128 INTERNATIONAL INVESTMENT LAW**

The course is designed to offer an opportunity to students to pursue further studies in the area of investment law, which is one of important subjects in legal studies today. Contemporary legal issues and important cases of foreign investment law are discussed. Some references are to be made, where appropriate, to those issues and new developments which are of special interests to students from the Greater China Area.

Pre-requisite: None

### **LAWS7129 LEGAL ISSUES ON "BELT AND ROAD"**

OBOR Initiative involves many legal issues which may not be placed easily under the present category of trade law, investment law, commercial law, or contract law and etc. This course is designed to give students an opportunity to see many of international trade and commercial law problems in the practical context of the OBOR initiative. Cases and most recent materials will be shared and studied during the course. Students are expected to participate in the class discussions in various forms, including project presentation, and case discussions.

Pre-requisite: None

### **LAWS7130 SEMIAR OF HONG KONG BASIC LAW AND HONG KONG LAW**

The Hong Kong Basic Law gives survey on theory and practice of "One Country and Two

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Systems" and the Hong Kong Basic Law, subjects for discussion include relations between the Central Government and the Special Administration regions, political, social, economic and cultural system and the relevant. The Hong Kong Law addresses the legal system in Hong Kong, it includes common law concepts and principles in Hong Kong's law, such as the sources of law in Hong Kong, the rule of law, and the related regulations and systems in specific legal departments.

Pre-requisite: None

#### **LAWS7131 LEGAL SYSTEM OF THE EAST ASIA**

Studies in legal systems of the East Asia including Chinese Mainland, the districts of Hong Kong, Macao and Taiwan, South Korea and Japan.

Pre-requisite: None

#### **LAWS7132 CASE STUDIES FOR GERMAN CLASSIC PRIVATE LAW**

In this course, the professor will give students various classic cases in civil law. Students can discuss with each other and try to solve problems. However, the professor will give his detailed studies, comments and conclusions. Students will learn how to analyze a case in German way. It will help students lay the foundation for becoming a lawyer or a judge in the future.

Pre-requisite: None

### **MASTER OF LAW (PORTUGUESE LANGUAGE)**

#### **LAWS7221 CIVIL LAW I**

The Civil Law will deal with three main themes: personal rights; contract law; law of tort. In the study of personal rights focus will be brought in the consequences of the informatics developments and genetic manipulation. In the study of contract law will focus mainly in the fulfilment of the creditor's rights. In tort law will deal along with classic themes also with recent developments in the field as product liability and environment damages.

Pre-requisite: None

#### **LAWS7222 CIVIL PROCEDURAL LAW I**

Alternative Dispute Resolution in the Macao Special Administrative Region of the RPC. Mediation. Conciliation. Difference between conciliation and mediation. Arbitration. Domestic Arbitration. International Arbitration. Arbitration as a means to facilitate the fair and speedy resolution of disputes. The confidentiality. The arbitration agreement and its species. The parties in the arbitration proceedings. The arbitrators. The arbitration proceedings. General powers exercisable by arbitral tribunal. The arbitral tribunal may make orders or give directions dealing with granting interim injunctions or directing provisional measures to be taken? Arbitration proceedings must to produce a settlement in a due period of time. The arbitrators responsibility.

Pre-requisite: None

#### **LAWS7223 COMMERCIAL LAW I**

Company law: Amendments to articles of association. Mergers, division and transformation. Dissolution and liquidation. Shareholders duties and rights. Group of companies.

Pre-requisite: None

#### **LAWS7224 CRIMINAL LAW AND CRIMINAL PROCEDURAL LAW I**

Relevant issues in substantive criminal law, such as: concept of crime and legal interest; causes excluding wrongfulness, causes excluding culpability and other grounds to exclude a penalty; determination of the criminal penalty; some types of crimes in particular (crimes against life, crimes against body integrity, crimes against honor, crimes against privacy; crimes against sexual self-determination, crimes against property).

Pre-requisite: None

### **LAWS7225 CIVIL LAW II**

Special contracts: sale, donation, lease, lend, mandate, gaming and betting, transaction and others. Developments in property law: land law, security interests in real property. Developments in family law: filiation and assisted procreation, protection of minors, marriage and matrimonial property, civil union, alimony. Developments in inheritance law: testate succession. New civil law issues.

Pre-requisite: None

### **LAWS7226 CIVIL PROCEDURAL LAW II**

Interim judicial injunctions in the Civil Procedure of the Macao Special Administrative Region of the RPC. Characteristics. The urgency and provisionality. The dependency to a principal injunction. Species. Typical interim injunctions. Generic interim injunctions. The court and the competence for producing an interim settlement. The value and effects of the interim settlements. The judgment criteria and the possibility, or not, of appeal. The *de iure condendo* concerns in the Civil Procedure of the Macao Special Administrative Region of the RPC.

Pre-requisite: None

### **LAWS7227 COMMERCIAL LAW II**

I. Introduction. Standard contract. II. Modern commercial contracts: financing contracts (leasing and factoring); distribution agreements contract (agency contract, commercial concession contract and franchising contract); Banking contracts (documentary credits, independent guarantees on first demand); computer contracts; publicity contracts.

Pre-requisite: None

### **LAWS7228 CRIMINAL LAW AND CRIMINAL PROCEDURAL LAW II**

Relevant issues in criminal procedure, such as: phases of the criminal procedure; principles ruling the criminal procedure; participants in the criminal procedure, their roles, powers and responsibilities; special criminal procedures; criminal evidence; appeals.

Pre-requisite: None

### **LAWS7229 CHINESE PRIVATE LAW**

Legislative learning and compilation of the Civil Code of the People's Republic of China. Theoretical issues relating to the general Part of Civil Law. Contractual liability. Indirect liability for tort by ISP. Tort liability of third-party in breach of contract. Compensation of spiritual damages. Theories and legislation on real right. Legal issues on classified norms of state-owned assets. Issues relating to marriage agreement. Legislative issues on the system of husband-wife property. Legal issues of acting mother. Conflict in systems of adoption. Amendments to company law and investment to create business, legal issues relating to the law of group corporations. Civil law issues relating to enterprise merger and split. Property insurance. Insurance abandonment. Comparison of regulations on falsified commercial paper. Amendments to the law of intellectual property in China. Protection of patent for gene. Protection of copyright on the internet and so on.

Pre-requisite: None

### **LAWS7230 PRIVATE INTERNATIONAL LAW**

I. Stand, specificity and characterization of International Trade Law. Methodological principles and orientations. II. Conflict of Laws. III. Conflict of jurisdictions. IV. Arbitrage mechanism. V. Celebrations of international contracts and the "battle of forms" problem. VI. Study of some specific issues: a) representation; b) insurance contract; c) maritime transport contract. VII. Set-Off in International Trade. VIII. International Bankruptcy.

Pre-requisite: None

### **LAWS7231 HISTORY OF LEGAL CULTURES**

This course assesses the formation and development of law and emphasizes the history of European legal culture, specially the history of Continental Legal Systems Topics include European ancient law (Hebrew law, Greek law, Roman law, etc.), European medieval law

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(Canonic law, Germanic law, Feudal law, Mercantile law, the revival of Roman law and the formation of common European law, etc.), Modern European law after the Renaissance and the legal evolution of Western Europe after the French Revolution, namely the sources of contemporary European law. The course also examines the ancient and contemporary legal philosophy of China, legal history of China and touches other legal system.

Pre-requisite: None

### **LAWS7232 HEALTH LAW**

This course intends to analyze current issues regarding health, science (medicine and genetics) and the human body, not only in light of Macanese law, but also having in consideration the experiences in comparative law. Topics to be discussed include civil and criminal medical liability; patient rights and responsibilities; reproductive techniques; genetics; new technologies in health care delivery and pharmaceutical law. The course offers a multidisciplinary approach intended to provide a deep and legally grounded knowledge on health law as an autonomous scientific domain.

Pre-requisite: None

### **LAWS7233 CONSTITUTIONAL LAW I**

I. Fundamental rights conflicts. Conflicts and concurrence between rights as one of the main aspects of the fundamental rights system. Methodological obstacles. Examples. Basic notions. The Conflict of rights and the internal and external theories of fundamental rights limits. Basic postulates of the internal theory. II. Fundamental rights conflicts in the Media.

Pre-requisite: None

### **LAWS7234 ADMINISTRATIVE LAW I**

Research on the development of the relation between the Public Administration and other powers, in the light of public good and fundamental rights defense. Public Administration and the rule of law. Principles of Administrative Law and their new development. Administrative act, classification of administrative acts, determinative nature of administrative act and its enforcement. Administrative litigation in urban management.

Pre-requisite: None

### **LAWS7235 PUBLIC INTERNATIONAL LAW I**

Theories on international law; Sources of international law; Relations between international law and domestic law; Subjects of international law; Responsibilities of states.

Pre-requisite: None

### **LAWS7236 CONSTITUTIONAL LAW II**

Comparative constitutional law. Historical, philosophical and constitutional fundaments of the constitutional justice; juridical and political dimensions of constitutional justice; the actors of the constitutional justice: Courts and Judges; the control of the constitutionality of legal rules.

Pre-requisite: None

### **LAWS7237 ADMINISTRATIVE LAW II**

Portuguese Urban Law and Macanese Urban Law. Characterization of the main Urban plans, and principle aspects of Macao Urban plan. Study of the main legal instruments.

Pre-requisite: None

### **LAWS7238 PUBLIC INTERNATIONAL LAW II**

Law of treaties; Law of international organizations; Resolutions of international disputes; New development of international law; International human rights.

Pre-requisite: None

### **LAWS7239 CHINESE CONSTITUTIONAL LAW**

Present status, major issues and future of the research of the theories of constitutional law in China; development and prospect of constitutional law and the history of constitutional politics

in China; basic theories and principles of Chinese constitutional law; the political system in China – characteristics, content and roles of the people's congresses and improvement, principles and roles of the system of election, relationship between the political parties and the state; the structure of the state, national autonomous government and the system of special administrative regions in China; characteristics and content of the system of basic rights and responsibilities of Chinese citizens and theories of human rights; organization, functions, powers, principles of operation and relationship in state institutions of China, their reform and improvement; theories and practice of the implementation of China's constitutional law, the system of guarantees, construction of constitutional law, amendments and supervision; the Constitution and the Basic Law of the SARs.

Pre-requisite: None

#### **LAWS7240 ECONOMIC LAW**

Definition; objects and general principles of economic law in Macao and its relations with other disciplines of studies. Legal research on economical administration, organization and market; improvement in foreign related investment law; importation of specialized professionals and investment; comparisons of laws on the gambling industry and management; comparisons of rules on tourism and entertainment; research on legal issues in house construction and mortgage, financial loans, auditing and inspection, industrial and commercial trade, system of taxation, natural resources, requisition of assets and other specific legal topics.

Pre-requisite: None

#### **LAWS7241 INTERNATIONAL CRIMINAL LAW**

This course provides students with a solid foundation about International Criminal Law and analyzes its historical development and current trends from a critical perspective.

The first part of the course surveys the history and sources of International Criminal Law. It explores the judgment of the International Military Tribunal at Nuremberg and the approach of the tribunal in relation to the crimes under its jurisdiction: war crimes, crimes against peace and crimes against humanity.

The second part of the course consists of an analysis of the work of the modern *ad hoc* international criminal tribunals and of the International Criminal Court.

Pre-requisite: None

#### **LAWS7291 PROJECT REPORT**

The Project Report serves the purpose of demonstrating the ability to identify, discuss and summarize any legal topic, ideally of present practical relevance, as well as to evidence basic writing skills and in-depth knowledge in the selected legal field. To successfully complete the Project Report, a Faculty member competent in the selected legal field tutors the progress and finally approves the report.

Pre-requisite: None

### **MASTER OF LAW IN EUROPEAN UNION LAW, INTERNATIONAL LAW AND COMPARATIVE LAW (ENGLISH LANGUAGE)**

#### **LAWS7301 TREATY REFORMS IN THE EU**

The European Union is based on the rule of law. Thus every action taken by the EU is founded on treaties that have been approved voluntarily and democratically by all EU member States. The course guides students towards a critical understanding of the founding treaties (Treaty of Paris, 1951, and Treaties of Rome, 1957), and the reforms in the Merger Treaty (1965), the budget treaties (1970, 1975), the Single European Act (1987), the Treaty of Maastricht (1992), the Treaty of Amsterdam (1997), the Treaty of Nice (2001), as well as the Constitutional Treaty (2004) and the Lisbon Treaty (2007).

Pre-requisite: None

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## **LAWS7302 CONTEMPORARY ISSUES IN INTERNATIONAL LAW**

Contemporary legal issues arising in distinct fields of international law will be critically examined. Relevant norms and principles in a select set of topics will be introduced before contemporary issues are addressed. Possible topics include traditional and modern sources and subjects, treaties, sovereignty, immunities and privileges, statehood and territorial disputes, asylum and extradition, state responsibility, collective security and unilateral use of force, armed conflict and criminal jurisdiction, terrorism and human rights, dispute resolution and role of general principles in *lex specialis* like WTO law and environmental law. The contemporary issues will be examined in the light of recent judicial and arbitral decisions, regional developments and emerging state practices.

Pre-requisite: None

## **LAWS7303 COMPARATIVE LEGAL SYSTEMS**

This course includes aspects of both macro and micro-comparison, and introduction to the method of comparative law, based on its constituent elements and practical examples. It also yields an overview over the major contemporary legal systems, "legal traditions" or "legal families" throughout the world, including, for instance, the Roman-Germanic or Civil Law Systems, Common Law Systems and non-occidental Law Systems, with reference to the Far-East – Chinese and Japanese Law – as well as for the Religious Legal Systems – Islamic and Hindu Law. These will be presented with a special focus on their main features, essential historical elements and study of some of their most significant legal institutions and concepts.

Pre-requisite: None

## **LLGC7000 RESEARCH METHODOLOGY AND LEGAL WRITING**

This course is designed to assist students with their project report or academic thesis by introducing them to advanced legal research and writing skills. It is taught by law professors competent in the area in accordance with the researched topics. The course covers a wide range of topics of legal research and writing, such as jurisprudence, legal research methodologies, use of library resources, legal reasoning, preparation and writing of law journal articles, preparation and writing of an academic thesis, project report or academic articles, use of references, formality for legal writing, and critical legal thinking.

Pre-requisite: None

## **LAWS7305 INSTITUTIONAL LAW OF THE EUROPEAN UNION**

The European Union, the European Communities and their legal system. The objectives. The institutions and bodies and their powers. The judicial system. The sources and scope of Community law. The interpretation and application of Community law, including the application of Community law by the Members States. The relationship between Community domestic law of the Members States.

Pre-requisite: None

## **LAWS7306 ECONOMIC LAW OF THE EUROPEAN UNION**

The course aims to equip students with the specialist knowledge in the field of EU law related to the economy: fundamental freedoms, customs union, internal market, economic union, monetary integration, competition, trade restrictions, antitrust, state aid, public undertakings and services of general interest. The course also delves on the main vectors of European Union trade law: theoretical foundations, the rationale underpinning free trade; the need for Union regulation; the forms of regulation, focusing in particular on arguments concerning regulatory competition. It subsequently addresses the construction and evolution of EU's internal market, looking in particular at the four freedoms in light of the evolution of the European Court of Justice's case law.

Pre-requisite: None

## **LAWS7307 INTERNATIONAL ECONOMIC LAW**

This course aims to critically examine contemporary legal issues in international economic



relations. Specific topics related to the international economic order including the actors, principles, legal sources and economic organizations will be explored. International trade law will be addressed in detail and norms governing international monetary, banking and financial relations will be introduced. GATT and WTO regimes governing trade in goods, services, TRIPS, competition policy and dispute settlement will be studied along with its emerging jurisprudence. International monetary law and role of IMF will be briefly examined to analyze specific challenges. The international financial architecture will be introduced towards the end mainly focusing on relevant institutions like the World Bank, sovereign debts, and international regulations on banking and financial markets.

Pre-requisite: None

### **LAWS7308 LAW OF INTERNATIONAL ORGANIZATIONS**

The course aims to offer a deep understanding of the law related to international organisations. Since the substantive law differs from organisation to organization, the course first introduces some core concepts and principles which are common to international organisations, such as theory of international organisations, legal personality and the principle of functionality. The course will subsequently look into the specific legal systems of some representative global organisations, such as the UN and the WTO, and some selected regional organization, like the EU and ASEAN or co-operation alliances like the BRICS, G7/G8 and G20 to examine how the principles and theoretical concepts are applied in practice. Finally, the course will discuss inter-relations between inter-governmental organisations and the role of non-governmental organisations.

Pre-requisite: None

### **LAWS7309 COMMON LAW**

This course will provide a comprehensive introduction to substantive common law and equity as developed in England and subsequently adopted in other jurisdictions like USA, Australia and Hong Kong. Common law and equitable remedies in specific fields like laws of trusts, contracts and torts and unique procedural elements like the writs and jury systems will be studied. Students will be trained in the judicial process using case studies and techniques of identifying ratio and obiter in binding precedents. The contemporary features of common law will be studied in a comparative perspective with the intent of training students from civil law jurisdictions to be able to interact with major common law systems in the world.

Pre-requisite: None

### **LAWS7310 COMPARATIVE CONTRACT LAW**

This course will offer a comparative study of contract law of major legal systems and some specific jurisdictions. The issues studied in a comparative perspective includes general principles of contract, formation, vitiating factors, exemption clauses, performance, discharge, breach, remedies and unification measures. Key differences between the common and civil law legal systems in governing contracts will be discussed. Specific jurisdictions will be chosen and the characteristics of the contract law will be examined and compared. It will also study major international efforts in harmonization of contractual principles and how far Asian jurisdictions have been responsive. A specific focus will be made on contract laws of Macao and Hong Kong SARs and relevant cases.

Pre-requisite: None

### **LAWS7391 PROJECT REPORT**

The Project Report serves the purpose of demonstrating the ability to identify, discuss and summarize any legal topic, ideally of present practical relevance, as well as to evidence basic writing skills and in-depth knowledge in the selected legal field. To successfully complete the Project Report, a Faculty member competent in the selected legal field tutors the progress and finally approves the report.

Pre-requisite: None

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### **LAWS7322 EXTERNAL LAW AND POLICY OF THE EUROPEAN UNION**

Introduction to the different policies of the European Union. General concept of common policies. Agricultural, commercial, industrial, social, transport, education and vocational training policy. The fiscal harmonization. Cultural policy. Policy for research and technological development. The economic and social co-operation. The development co-operation. The new areas: energy, civil protection and tourism. Historical development of the EU external policy before the Lisbon Treaty. The EU external policy, legal setting, institutional organisation and actions after the Lisbon Treaty.

Pre-requisite: None

### **LAWS7311 EU COMPETITION LAW**

Basic concepts: market competition, economic activity, undertaking. Anti-competitive agreements: Article 101 TFEU, horizontal and vertical agreements, block exemptions. Abuse of dominant position: Article 102 TFEU, exclusionary and exploitative abuses. Merger control: EU Merger Regulation, substantive assessment, efficiency defense, merger remedies. Enforcement system: Regulation 1/2003, judicial control, public and private enforcement. Public undertakings and state aid measures.

Pre-requisite: None

### **LAWS7312 EU ENVIRONMENTAL LAW**

This course is about the main issues related to EU Environmental law, covering the following topics: history and evolution of EU Environmental Law; Environmental Law in EU Treaties; EU Environmental law principles; and some of the most important areas of EU Environmental Law, such as environmental impact assessment; assessment of the effects of certain plans and programmes on the environment; integrated pollution prevention and control; EU emissions allowance trading system for greenhouse gas; Community eco-management and audit scheme (EMAS).

Pre-requisite: None

### **LAWS7313 EU NATURAL RESOURCES AND ENERGY LAW**

The Treaty on the European Union (TEU) calls on the union to “help develop international measures to preserve and improve the quality of the environment and the sustainable management of global natural resources, in order to ensure sustainable development”. This course thus presents the legal rules relating to the management of natural resources and the security of energy supply against the backdrop of a high degree of environmental protection from a European perspective. It not only covers various natural resources, such as land, air, water, oil and gas but also explores new policies to exploit alternative or renewable sources of energy.

Pre-requisite: None

### **LAWS7314 FOREIGN INVESTMENT LAW**

This course aims at equipping students with the requisite knowledge to deal intricate legal issues facing foreign investments. The concept as manifested in the form of portfolio and direct investment will be introduced along with relevant investment risks. The governing norms and principles in domestic laws (home and host state), bilateral treaties (BITs), multilateral (including WTO TRIMS) and regional instruments will be studied. The course will mainly focus on Investment arbitration including jurisdiction and applicable law issues in investment contracts and BITs, breach of treatment standards, actions constituting taking of foreign property, defenses and compensation. Investor-state investment disputes and institutional arbitration involving landmark cases will be examined specifically.

Pre-requisite: None

### **LAWS7315 INTERNATIONAL CRIMINAL AND HUMANITARIAN LAW**

Core substantive and procedural rules of international criminal law and basic concepts, principles and rules of international humanitarian law (IHL) will be introduced. The Rome

Statute of the International Criminal Court (ICC), on the definition of substantive crimes, jurisdiction and the admissibility of cases, and principles of international criminal law will be studied. Students will get an overview of different actors in the ICC and its criminal procedure. Concerning IHL, the course will first discuss the history and aims of IHL, its sources, and the notion of armed conflict. Secondly, it will set out the cardinal principles of IHL, with special emphasis on the principle of distinction. Finally, it will discuss the relation between IHL and international human rights law and international criminal law.

Pre-requisite: None

### **LAW57316 HUMAN RIGHTS AND REFUGEE LAW**

This course aims to address the interaction between national, regional and international human rights protection and the protection of refugees. It will examine the framework on human rights protection, including the historical development of human rights, the sources and the different categories of human rights. Contemporary challenges facing international mechanism for protection of human rights will be examined. Human rights laws and institutions in selected jurisdictions, including Asia will be studied in a comparative perspective in order to examine national implementation of international norms. The jurisprudence in major landmark human rights cases and its implementation will be critically examined. Finally, the course identifies the legal issues and challenges concerning refugees and migration primarily across borders.

Pre-requisite: None

### **LAW57317 LEGAL CULTURE AND LEGAL PLURALISM**

This course assesses the formation and development of law based on the history of European and Chinese legal cultures. Specific focus is made on continental legal systems. Topics include European ancient law (Hebrew law, Greek law, Roman law, etc.), European medieval law (Canonic law, Germanic law, Feudal law, Mercantile law, the revival of Roman law and the formation of common European law), modern European law after the Renaissance and the legal evolution of Western Europe after the French Revolution, namely the sources of contemporary European law. The course also examines the ancient and contemporary legal philosophy of China, legal history and culture in China. The course will also draw examples of unique legal cultures and legal pluralism from other jurisdictions like Japan and India.

Pre-requisite: None

### **LAW57318 MARITIME AND SHIPPING LAW**

The objective of this course is to foster a critical appraisal of private law issues arising in maritime transportation. Topics covered include carriage of goods by sea, maritime safety and liability and marine insurance. International legal instruments governing relevant issues and specific national legislation and cases will be comparatively examined. The issues covered includes international sales and incoterms, carriage contracts and bill of lading, cargo claims, liability of carriers, security and limitation of liability, charter parties, maritime safety and navigation, salvage, towage and general average, multimodal transportation and marine insurance. The role of admiralty courts and maritime arbitration mechanism and relevant enforcement issues will be briefly introduced.

Pre-requisite: None

### **LAW57319 E-COMMERCE AND INFORMATION TECHNOLOGY LAW**

Critical legal issues relating to information technology and its application in B2B and B2C business transactions will be addressed mainly in a trans-national context and in the light of the challenges arising in the borderless nature of the cyberspace. Issues covered includes jurisdiction and applicable law for online transactions, electronic contracts and agents, click-wrap agreements, intellectual property rights, electronic authentication and transactional security, virtual enterprises and domain names, online privacy and data protection, electronic payment systems and taxation, liability of online intermediaries, online consumer protection, cyber-crime and online dispute resolution. Due to the diversity and relative infancy of legal developments in the field, specific national laws and cases will be studied using comparative

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methods.

Pre-requisite: None

#### **LAWS7406 INTRODUCTION TO MACAU LAW**

This course covers key topics and features of the legal system of the Macao SAR. The themes may vary but normally should include discussions of the Basic Law and the autonomy of the Macao SAR, the political system, the protection of fundamental rights, and international law issues relevant for Macao. The discussions are contextual and take comparative law into account.

Pre-requisite: None

#### **LAWS7407 MACAU AND COMPARATIVE GAMING LAW**

This course focuses especially on the commercial operation of casino games of chance (table games and slot machines) as regulated in the Macao SAR, the world's largest gaming jurisdiction. The course has an interdisciplinary nature and covers especially the history of gaming in Macao and various issues of administrative and tax law, contract law and criminal law. The course includes a detailed study of the regulation of gaming concessions and of gaming promoters. It also features a comparative element, by which the Macao system will be contrasted with the regulation of gaming in the two main jurisdictions in gaming other than Macao, which are Nevada and Singapore.

Pre-requisite: None

#### **LAWS7408 ADVANCED ISSUES OF INTERNATIONAL TRADE LAW**

This course builds on the course on WTO and Regional Trade Law and proposes the discussion of selected, more advanced issues of contemporary relevance in the international trading community. It will thus strongly rely on the discussion of case law, i.e. particularly ongoing disputes of global and regional relevance, and will be based on the assignment of pertinent reading materials. Active class participation in the form of raising questions or partake in group discussions as well as class presentations will be equally given an important role.

Pre-requisite: None

#### **LAWS7409 ASIAN BUSINESS LAW**

This course undertakes a comparative approach to the regulation of business in Asia. It first tries to assess possible particularities in the legal and business culture in Asia and focuses inter alia on the areas of commercial law, corporate law and business transactions, securities, intellectual property, and labor law issues. To this end, selected jurisdictions, such as those of the PRC, Japan and Korea but also others will be presented and discussed from a comparative and both public-private law perspective. The analysis includes the evaluation of national legal systems in the context of regional economic integration projects based on various bi-, tri- or plurilateral agreements.

Pre-requisite: None

#### **LAWS7410 COMPANY LAW**

Based on the regulation of companies in Macao, focusing on private companies and public companies, this course discusses major trends of in company law and corporate governance. All major issues of company law will be covered, including fundamental concepts (types of companies; limited liability; capital maintenance), the creation of companies, the capital, the shares, the organs of companies, the rights and obligations of shareholders, and the dissolution and liquidation of companies.

Pre-requisite: None

#### **LAWS7411 LAW AND SOCIETY**

Taking a multidisciplinary approach, this course deals with a wide set of contact points between law and society. These include first a retrospective look at the significance of various factors or causal elements fuelling the changes underlying the development of societies, such as the invention of new technologies amidst an evolving relationship between politics and economics.

It then asks how these numerous changes will influence the processes underlying legal thinking and reasoning as well as the adoption, application, and enforcement of laws in the future. To this end, the discussion will also present new theoretical approaches in law, such as the “law and economics” movement or a political economic, as well as novel concepts, such as “global governance” or “global administrative law”, to try to identify new trends in the field of legal science.

Pre-requisite: None

#### **LAWS7404 INTELLECTUAL PROPERTY LAW IN THE CREATIVE ECONOMY**

This course discusses the principal role and main characteristics of intellectual property rights in the context of the regulation of international trade in an emerging global creative economy. Taking into account the rise of a knowledge-based economy, which was accompanied by a rise in creativity, culture and technology, it covers the history and present status quo of the main intellectual property rights, such as copyright, trademarks, patents, geographical indications, and designs. The key international treaties, such as the Berne and Paris Conventions and notably the TRIPS Agreement adopted under the aegis of the World Trade Organization (WTO) will also be analyzed.

Pre-requisite: None

#### **LAWS7412 MONEY LAUNDERING AND ANTI-CORRUPTION LAW**

This course discusses international trends and legal initiatives for the prevention and repression of corruption, money laundering and the financing of terrorism through the financial system. The discussion covers the international treaties relevant in the field, detailed substantive criminal law issues and the preventive measures required from financial institutions.

Pre-requisite: None

#### **LAWS7413 PRIVATE INTERNATIONAL LAW**

This course focuses on Private International Law-provisions that are applicable in cross-border cases. These provisions may be set out in international treaty law, regional laws and domestic Private International Law. The first part deals with questions of jurisdiction, recognition and enforcement of civil and commercial matters, the second with the conflict rules that answer the question which will be the applicable law. The students will be accustomed with i.a. international conventions of which Macao is a contracting party, other regulations on Private International Law, and examples of domestic rules on Private International Law. Basic knowledge of private law (especially contracts & torts) and procedural law (jurisdiction, recognition and enforcement) are desirable.

Pre-requisite: None

#### **LAWS7414 CONSUMER PROTECTION LAW**

This course enquires into the role of consumer protection law in the legal systems of contemporary societies. The inquiry includes a presentation of the laws and organizations at both the national and international level that are entrusted with the protection of the rights of consumers in their commercial transactions. Further issues discussed include the legal concept and definition of the consumer, contractual issues trying to ensure the protection of the weaker party through special contractual clauses, and the relationship and contact points with other legal areas, such as competition law, intellectual property law (e.g. trademarks), and product safety law.

Pre-requisite: None

#### **LAWS7415 COMMERCIAL CONTRACTS**

This is a specialized contract law course covering various legal mechanisms to distribute goods and services, including the ICC Incoterms, the contract of carriage of goods by sea and the various payment mechanisms in international trade. The regulation of international trade agreements by the UN Convention on the International Sale of Goods will be addressed, along with the contracts used for the marketing of goods. The course will cover also various financial instruments and agreements involving banks, namely the term loan, the negative pledge,

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syndicated lending.  
Pre-requisite: None

### **LAWS7320 MOOTING**

The mooting course is aimed at developing drafting and advocacy skills for students. The course will train the students in adversarial process to enable them to examine legal disputes, conduct legal research, and develop drafting, argumentative and rebuttal skills. The course is open to all students but the enrolment is subjected to a selection process. Selected students will be required to prepare and participate in mooting competitions like the Jessup International Law Moot Competition or other competitions. Students will analyze the moot problem, conduct legal research and draft written memorials according to the rules of the competition. The students will be trained for oral rounds and partake in regular practice moots.

Pre-requisite: None

### **LAWS7321 SEMINAR SERIES**

This course will consist of a minimum number of 10 seminars offered by the Faculty of Law throughout the academic year featuring notably eminent visiting professors, practitioners or distinguished experts from a great variety of legal and professional backgrounds. Moreover, their active participation is encouraged and will be included in the final evaluation.

Pre-requisite: None

## **MASTER OF LAW IN INTERNATIONAL BUSINESS LAW (ENGLISH LANGUAGE)**

### **LAWS7401 TRANSNATIONAL LAW**

The course offers a close look at the history of the *lex mercatoria*, its current status as well as the formation of various subcategories, such as a *lex petrolea* (oil law), a *lex maritima* (maritime law), *lex sportiva* (sports law), *lex electronica*, *lex digitalis* or a *lex informatica* (law governing information and communications technologies (ICT)). It will also discuss the related problems of economic sanctions and the practice of mixed public-private tribunals.

Pre-requisite: None

### **LAWS7402 WTO AND REGIONAL TRADE LAW**

This course addresses the regulation of international trade law in the wider context of general public international law. It focuses in particular on the multilateral trade agreements established under the World Trade Organization (WTO) as the successor of the 1947 General Agreement on Tariffs and Trade (GATT). Against the backdrop of the dynamics underlying economic integration at the global level, the course also includes a closer look at the increasing practice of Member states all around the world to negotiate regional trade agreements (RTAs), such as the North American Free Trade Agreement (NAFTA), the European Union (EU), the Asia Pacific Economic Cooperation (APEC), the Association of Southeast Asian Nations (ASEAN) or the Mainland and Macao Closer Economic Partnership Arrangement (CEPA).

Pre-requisite: None

### **LAWS7403 DISPUTE RESOLUTION**

This course deals with the characteristics of alternative dispute resolution (ADR) on the one hand and with arbitration on the other. The specific pros and cons of each instrument to settle disputes will be discussed. More specifically, different aspects of International Commercial Arbitration (ICA) will be highlighted, such as: The characteristics of ICA in practice, the arbitration agreement and the applicable Law, arbitrators and arbitration proceedings, and finally the effects and limits of arbitral awards. The students will be accustomed i.a. with the Brussels I-Regulation, the New York Convention on the Recognition and Enforcement of

Foreign Arbitral Awards (1958), the European Convention on Commercial Arbitration (1961) and other sources.

Pre-requisite: None

#### **LAWS7404 INTELLECTUAL PROPERTY LAW IN THE CREATIVE ECONOMY**

This course discusses the principal role and main characteristics of intellectual property rights in the context of the regulation of international trade in an emerging global creative economy. Taking into account the rise of a knowledge-based economy, which was accompanied by a rise in creativity, culture and technology, it covers the history and present status quo of the main intellectual property rights, such as copyright, trademarks, patents, geographical indications, and designs. The key international treaties, such as the Berne and Paris Conventions and notably the TRIPS Agreement adopted under the aegis of the World Trade Organization (WTO) will also be analyzed.

Pre-requisite: None

#### **LLGC7000 RESEARCH METHODOLOGY AND LEGAL WRITING**

This course is designed to assist students with their project report or academic thesis by introducing them to advanced legal research and writing skills. It is taught by law professors competent in the area in accordance with the researched topics. The course covers a wide range of topics of legal research and writing, such as jurisprudence, legal research methodologies, use of library resources, legal reasoning, preparation and writing of law journal articles, preparation and writing of an academic thesis, project report or academic articles, use of references, formality for legal writing, and critical legal thinking.

Pre-requisite: None

#### **LAWS7491 PROJECT REPORT**

The Project Report serves the purpose of demonstrating the ability to identify, discuss and summarize any legal topic, ideally of present practical relevance, as well as to evidence basic writing skills and in-depth knowledge in the selected legal field. To successfully complete the Project Report, a Faculty member competent in the selected legal field tutors the progress and finally approves the report.

Pre-requisite: None

#### **LAWS7311 EU COMPETITION LAW**

Basic concepts: market competition, economic activity, undertaking. Anti-competitive agreements: Article 101 TFEU, horizontal and vertical agreements, block exemptions. Abuse of dominant position: Article 102 TFEU, exclusionary and exploitative abuses. Merger control: EU Merger Regulation, substantive assessment, efficiency defense, merger remedies. Enforcement system: Regulation 1/2003, judicial control, public and private enforcement. Public undertakings and state aid measures.

Pre-requisite: None

#### **LAWS7312 EU ENVIRONMENTAL LAW**

This course is about the main issues related to EU Environmental law, covering the following topics: history and evolution of EU Environmental Law; Environmental Law in EU Treaties; EU Environmental law principles; and some of the most important areas of EU Environmental Law, such as environmental impact assessment; assessment of the effects of certain plans and programmes on the environment; integrated pollution prevention and control; EU emissions allowance trading system for greenhouse gas; Community eco-management and audit scheme (EMAS).

Pre-requisite: None

#### **LAWS7313 EU NATURAL RESOURCES AND ENERGY LAW**

The Treaty on the European Union (TEU) calls on the union to "help develop international measures to preserve and improve the quality of the environment and the sustainable

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management of global natural resources, in order to ensure sustainable development". This course thus presents the legal rules relating to the management of natural resources and the security of energy supply against the backdrop of a high degree of environmental protection from a European perspective. It not only covers various natural resources, such as land, air, water, oil and gas but also explores new policies to exploit alternative or renewable sources of energy.

Pre-requisite: None

### **LAWS7301 TREATY REFORMS IN THE EU**

The European Union is based on the rule of law. Thus every action taken by the EU is founded on treaties that have been approved voluntarily and democratically by all EU member States. The course guides students towards a critical understanding of the founding treaties (Treaty of Paris, 1951, and Treaties of Rome, 1957), and the reforms in the Merger Treaty (1965), the budget treaties (1970, 1975), the Single European Act (1987), the Treaty of Maastricht (1992), the Treaty of Amsterdam (1997), the Treaty of Nice (2001), as well as the Constitutional Treaty (2004) and the Lisbon Treaty (2007).

Pre-requisite: None

### **LAWS7314 FOREIGN INVESTMENT LAW**

This course aims at equipping students with the requisite knowledge to deal intricate legal issues facing foreign investments. The concept as manifested in the form of portfolio and direct investment will be introduced along with relevant investment risks. The governing norms and principles in domestic laws (home and host state), bilateral treaties (BITs), multilateral (including WTO TRIMS) and regional instruments will be studied. The course will mainly focus on Investment arbitration including jurisdiction and applicable law issues in investment contracts and BITs, breach of treatment standards, actions constituting taking of foreign property, defenses and compensation. Investor-state investment disputes and institutional arbitration involving landmark cases will be examined specifically.

Pre-requisite: None

### **LAWS7315 INTERNATIONAL CRIMINAL AND HUMANITARIAN LAW**

Core substantive and procedural rules of international criminal law and basic concepts, principles and rules of international humanitarian law (IHL) will be introduced. The Rome Statute of the International Criminal Court (ICC), on the definition of substantive crimes, jurisdiction and the admissibility of cases, and principles of international criminal law will be studied. Students will get an overview of different actors in the ICC and its criminal procedure. Concerning IHL, the course will first discuss the history and aims of IHL, its sources, and the notion of armed conflict. Secondly, it will set out the cardinal principles of IHL, with special emphasis on the principle of distinction. Finally, it will discuss the relation between IHL and international human rights law and international criminal law.

Pre-requisite: None

### **LAWS7316 HUMAN RIGHTS AND REFUGEE LAW**

This course aims to address the interaction between national, regional and international human rights protection and the protection of refugees. It will examine the framework on human rights protection, including the historical development of human rights, the sources and the different categories of human rights. Contemporary challenges facing international mechanism for protection of human rights will be examined. Human rights laws and institutions in selected jurisdictions, including Asia will be studied in a comparative perspective in order to examine national implementation of international norms. The jurisprudence in major landmark human rights cases and its implementation will be critically examined. Finally, the course identifies the legal issues and challenges concerning refugees and migration primarily across borders.

Pre-requisite: None



### **LAWS7308 LAW OF INTERNATIONAL ORGANIZATIONS**

The course aims to offer a deep understanding of the law related to international organisations. Since the substantive law differs from organisation to organization, the course first introduces some core concepts and principles which are common to international organisations, such as theory of international organisations, legal personality and the principle of functionality. The course will subsequently look into the specific legal systems of some representative global organisations, such as the UN and the WTO, and some selected regional organization, like the EU and ASEAN or co-operation alliances like the BRICS, G7/G8 and G20 to examine how the principles and theoretical concepts are applied in practice. Finally, the course will discuss inter-relations between inter-governmental organisations and the role of non-governmental organisations.

Pre-requisite: None

### **LAWS7317 LEGAL CULTURE AND LEGAL PLURALISM**

This course assesses the formation and development of law based on the history of European and Chinese legal cultures. Specific focus is made on continental legal systems. Topics include European ancient law (Hebrew law, Greek law, Roman law, etc.), European medieval law (Canonic law, Germanic law, Feudal law, Mercantile law, the revival of Roman law and the formation of common European law), modern European law after the Renaissance and the legal evolution of Western Europe after the French Revolution, namely the sources of contemporary European law. The course also examines the ancient and contemporary legal philosophy of China, legal history and culture in China. The course will also draw examples of unique legal cultures and legal pluralism from other jurisdictions like Japan and India.

Pre-requisite: None

### **LAWS7309 COMMON LAW**

This course will provide a comprehensive introduction to substantive common law and equity as developed in England and subsequently adopted in other jurisdictions like USA, Australia and Hong Kong. Common law and equitable remedies in specific fields like laws of trusts, contracts and torts and unique procedural elements like the writs and jury systems will be studied. Students will be trained in the judicial process using case studies and techniques of identifying ratio and obiter in binding precedents. The contemporary features of common law will be studied in a comparative perspective with the intent of training students from civil law jurisdictions to be able to interact with major common law systems in the world.

Pre-requisite: None

### **LAWS7318 MARITIME AND SHIPPING LAW**

The objective of this course is to foster a critical appraisal of private law issues arising in maritime transportation. Topics covered include carriage of goods by sea, maritime safety and liability and marine insurance. International legal instruments governing relevant issues and specific national legislation and cases will be comparatively examined. The issues covered includes international sales and incoterms, carriage contracts and bill of lading, cargo claims, liability of carriers, security and limitation of liability, charter parties, maritime safety and navigation, salvage, towage and general average, multimodal transportation and marine insurance. The role of admiralty courts and maritime arbitration mechanism and relevant enforcement issues will be briefly introduced.

Pre-requisite: None

### **LAWS7319 E-COMMERCE AND INFORMATION TECHNOLOGY LAW**

Critical legal issues relating to information technology and its application in B2B and B2C business transactions will be addressed mainly in a trans-national context and in the light of the challenges arising in the borderless nature of the cyberspace. Issues covered includes jurisdiction and applicable law for online transactions, electronic contracts and agents, click-wrap agreements, intellectual property rights, electronic authentication and transactional security, virtual enterprises and domain names, online privacy and data protection, electronic

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payment systems and taxation, liability of online intermediaries, online consumer protection, cyber-crime and online dispute resolution. Due to the diversity and relative infancy of legal developments in the field, specific national laws and cases will be studied using comparative methods.

Pre-requisite: None

#### **LAWS7406 INTRODUCTION TO MACAO LAW**

This course covers key topics and features of the legal system of the Macao SAR. The themes may vary but normally should include discussions of the Basic Law and the autonomy of the Macao SAR, the political system, the protection of fundamental rights, and international law issues relevant for Macao. The discussions are contextual and take comparative law into account.

Pre-requisite: None

#### **LAWS7407 MACAO AND COMPARATIVE GAMING LAW**

This course focuses especially on the commercial operation of casino games of chance (table games and slot machines) as regulated in the Macao SAR, the world's largest gaming jurisdiction. The course has an interdisciplinary nature and covers especially the history of gaming in Macao and various issues of administrative and tax law, contract law and criminal law. The course includes a detailed study of the regulation of gaming concessions and of gaming promoters. It also features a comparative element, by which the Macao system will be contrasted with the regulation of gaming in the two main jurisdictions in gaming other than Macao, which are Nevada and Singapore.

Pre-requisite: None

#### **LAWS7408 ADVANCED ISSUES OF INTERNATIONAL TRADE LAW**

This course builds on the course on WTO and Regional Trade Law and proposes the discussion of selected, more advanced issues of contemporary relevance in the international trading community. It will thus strongly rely on the discussion of case law, i.e. particularly ongoing disputes of global and regional relevance, and will be based on the assignment of pertinent reading materials. Active class participation in the form of raising questions or partake in group discussions as well as class presentations will be equally given an important role.

Pre-requisite: None

#### **LAWS7409 ASIAN BUSINESS LAW**

This course undertakes a comparative approach to the regulation of business in Asia. It first tries to assess possible particularities in the legal and business culture in Asia and focuses inter alia on the areas of commercial law, corporate law and business transactions, securities, intellectual property, and labor law issues. To this end, selected jurisdictions, such as those of the PRC, Japan and Korea but also others will be presented and discussed from a comparative and both public-private law perspective. The analysis includes the evaluation of national legal systems in the context of regional economic integration projects based on various bi-, tri- or plurilateral agreements.

Pre-requisite: None

#### **LAWS7410 COMPANY LAW**

Based on the regulation of companies in Macao, focusing on private companies and public companies, this course discusses major trends of in company law and corporate governance. All major issues of company law will be covered, including fundamental concepts (types of companies; limited liability; capital maintenance), the creation of companies, the capital, the shares, the organs of companies, the rights and obligations of shareholders, and the dissolution and liquidation of companies.

Pre-requisite: None

#### **LAWS7411 LAW AND SOCIETY**

Taking a multidisciplinary approach, this course deals with a wide set of contact points between

law and society. These include first a retrospective look at the significance of various factors or causal elements fuelling the changes underlying the development of societies, such as the invention of new technologies amidst an evolving relationship between politics and economics. It then asks how these numerous changes will influence the processes underlying legal thinking and reasoning as well as the adoption, application, and enforcement of laws in the future. To this end, the discussion will also present new theoretical approaches in law, such as the “law and economics” movement or a political economic, as well as novel concepts, such as “global governance” or “global administrative law”, to try to identify new trends in the field of legal science.

Pre-requisite: None

#### **LAWS7412 MONEY LAUNDERING AND ANTI-CORRUPTION LAW**

This course discusses international trends and legal initiatives for the prevention and repression of corruption, money laundering and the financing of terrorism through the financial system. The discussion covers the international treaties relevant in the field, detailed substantive criminal law issues and the preventive measures required from financial institutions.

Pre-requisite: None

#### **LAWS7413 PRIVATE INTERNATIONAL LAW**

This course focuses on Private International Law-provisions that are applicable in cross-border cases. These provisions may be set out in international treaty law, regional laws and domestic Private International Law. The first part deals with questions of jurisdiction, recognition and enforcement of civil and commercial matters, the second with the conflict rules that answer the question which will be the applicable law. The students will be accustomed with i.a. international conventions of which Macao is a contracting party, other regulations on Private International Law, and examples of domestic rules on Private International Law. Basic knowledge of private law (especially contracts & torts) and procedural law (jurisdiction, recognition and enforcement) are desirable.

Pre-requisite: None

#### **LAWS7414 CONSUMER PROTECTION LAW**

This course enquires into the role of consumer protection law in the legal systems of contemporary societies. The inquiry includes a presentation of the laws and organizations at both the national and international level that are entrusted with the protection of the rights of consumers in their commercial transactions. Further issues discussed include the legal concept and definition of the consumer, contractual issues trying to ensure the protection of the weaker party through special contractual clauses, and the relationship and contact points with other legal areas, such as competition law, intellectual property law (e.g. trademarks), and product safety law.

Pre-requisite: None

#### **LAWS7415 COMMERCIAL CONTRACTS**

This is a specialized contract law course covering various legal mechanisms to distribute goods and services, including the ICC Incoterms, the contract of carriage of goods by sea and the various payment mechanisms in international trade. The regulation of international trade agreements by the UN Convention on the International Sale of Goods will be addressed, along with the contracts used for the marketing of goods. The course will cover also various financial instruments and agreements involving banks, namely the term loan, the negative pledge, syndicated lending, securitisation and derivatives.

Pre-requisite: None

#### **LAWS7320 MOOTING**

The mooting course is aimed at developing drafting and advocacy skills for students. The course will train the students in adversarial process to enable them to examine legal disputes, conduct legal research, and develop drafting, argumentative and rebuttal skills. The course is open to all students but the enrolment is subjected to a selection process. Selected students

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will be required to prepare and participate in moot competitions like the Jessup International Law Moot Competition or other competitions. Students will analyze the moot problem, conduct legal research and draft written memorials according to the rules of the competition. The students will be trained for oral rounds and partake in regular practice moots.

Pre-requisite: None

### **LAWS7321 SEMINAR SERIES**

This course will consist of a minimum number of 10 seminars offered by the Faculty of Law throughout the academic year featuring notably eminent visiting professors, practitioners or distinguished experts from a great variety of legal and professional backgrounds. Moreover, their active participation is encouraged and will be included in the final evaluation. Pre-requisite: None

## **MASTER OF LAW IN MACAU LAW AND PRACTICE**

### **LAWS7561 PORTUGUESE CONVERSATION FOR LEGAL PRACTICE**

This subject emphasizes on correct use of grammar and expressions in spoken and written Portuguese in legal practices. Students will practice to communicate with the administrative and judicial institutions in different situations as set by the teaching staff so that they can get practical experiences.

Pre-requisite: None

### **LAWS7562 MACAO CRIMINAL LAW**

Provides an in-depth study of the legal principles, doctrines, and procedures governing criminal offenses in Macao. Students examine key aspects such as criminal liability, defenses, and sentencing, alongside an analysis of relevant legislation and case law. Through case studies and practical exercises, students develop a nuanced understanding of criminal justice practices and their application within the Macao legal system. The course equips students with the knowledge and skills necessary to navigate complex criminal law issues, preparing them for roles in legal practice, policymaking, and advocacy in Macao and beyond.

Pre-requisite: None

### **LAWS7563 MACAO CIVIL AND COMMERCIAL LAW**

Unveil the intricacies of Macao's Civil and Commercial Legal System. This course provides an in-depth exploration of the foundations, principles, and practical applications of Macao's civil and commercial laws. Through case studies and comparative analysis, students will develop a profound understanding of Macao's legal framework, preparing them for the dynamic landscape of civil and commercial legal practice in the region.

Pre-requisite: None

### **LAWS7564 MACAO ADMINISTRATIVE LAW**

This course explores the intricacies of Macao's administrative legal framework, emphasizing principles, procedures, and judicial review in public administration. Delve into specific administrative challenges unique to Macao, navigating the intersection of local governance and international legal standards. Gain practical insights for legal practice in administrative law within Macao's distinctive jurisdiction.

Pre-requisite: None

### **LAWS7565 LEGAL RESEARCH AND LEGAL WRITING**

Hone essential skills for legal practitioners in Macao through this course focusing on advanced legal research methodologies and persuasive legal writing. Explore comprehensive approaches to legal analysis, citation techniques, and effective communication strategies, empowering students with the proficiency required for success in the dynamic legal landscape of Macao.

Pre-requisite: None

### **LAWS7566 RESEARCH OF JUDICIAL DECISIONS IN MACAO**

This course offers advanced training in analyzing and critiquing judicial opinions within the Macao legal system. Students gain expertise in deciphering legal reasoning, assessing precedent, and conducting comparative analyses. Topics include understanding court hierarchies, researching legal databases, and crafting persuasive legal arguments. Through practical exercises and comparative studies, students develop essential skills for legal practice and scholarly research.

Recommended readings provide additional insights into Macao jurisprudence and comparative legal analysis. This course equips students with the knowledge and skills necessary to navigate complex legal issues and contribute meaningfully to the evolving landscape of Macao law.

Pre-requisite: None

### **LAWS7567 MACAO BASIC LAW**

Delve into the constitutional cornerstone of Macao's legal system. This course comprehensively examines the Macao Basic Law, exploring its historical significance, constitutional principles, and the impact on legal practice. Students will gain a nuanced understanding of the unique legal framework governing the Macao Special Administrative Region, preparing them for the complexities of legal practice in this dynamic jurisdiction.

Pre-requisite: None

### **LAWS7568 INTERREGIONAL LAW**

This course explores the legal frameworks governing transnational interactions and relationships across regions, with a focus on Macau's position within the global legal landscape. Students delve into the principles, institutions, and challenges of interregional law, examining areas such as international trade, human rights, and diplomatic relations. Through case studies and comparative analysis, students gain insights into the complexities of navigating legal issues spanning multiple jurisdictions, equipping them with essential knowledge for engaging in legal practice and policymaking in a globalized world.

Pre-requisite: None

### **LAWS7569 MACAO CRIMINAL PROCEDURAL LAW**

Offers an in-depth examination of the procedural rules and practices governing criminal proceedings in Macao. Students explore the legal framework for investigations, trials, and appeals, emphasizing the rights of the accused and the obligations of law enforcement and judicial authorities. Topics include arrest and detention, evidence gathering, trial procedures, and sentencing. Through case studies and practical exercises, students develop a comprehensive understanding of the procedural safeguards and due process principles underpinning the Macao criminal justice system. The course prepares students for legal practice, advocacy, and scholarly research in criminal law and procedure in Macao.

Pre-requisite: None

### **LAWS7598 PROJECT REPORT**

Guided by a supervisor, students embark on an independent research project, addressing a pertinent legal issue within Macao's jurisdiction. Through meticulous research, critical analysis, and scholarly writing, students contribute to the legal discourse, showcasing their mastery of legal principles and practice. This course culminates in a comprehensive project report, preparing graduates with a valuable asset demonstrating their expertise in Macau law.

Pre-requisite: None

### **LAWS7604 CIVIL PROCEDURE AND NON-LITIGATION DISPUTE RESOLUTION**

This course delves into civil procedure and various non-litigation dispute resolution methods, conducted in Portuguese. It emphasizes extrajudicial processes such as arbitration, collaborative law, and mediation utilized to resolve conflicts among individuals, business entities, governmental agencies, and states within the context of public international law. The civil procedure aspect explores the procedural rules governing disputes within the legal system, while the nonlitigation methods focus on resolving conflicts outside of formal court proceedings.

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Students will examine the intricacies of civil procedure alongside the benefits and processes of nonlitigation dispute resolution. Emphasis is placed on the importance of party agreement in opting for non-litigation methods, either before or after a dispute arises. The course highlights the increasing acceptance and utilization of non-litigation dispute resolution due to its perceived advantages, including greater flexibility, cost-effectiveness compared to traditional litigation, and the expeditious resolution of disputes.

Pre-requisite: None

## **Postgraduate Diploma in Law Programme**

### **INTRODUCTION TO MACAU LAW PROGRAMME**

#### **LAWS6001 PORTUGUESE LANGUAGE**

Functional contents: those demanded by several situations of communication in different thematic areas such as Identification, Public Services, Social Relationships, the Weather, areas where the student will have, for example, to identify himself (or ask for identification), introduce himself (or introduce someone), invite, excuse, inform (or get informed), approve, disapprove, ask permission or give permission, express attitude, feelings... The grammatical contents will depend on the studied linguistic achievements. The use of the most frequent verbal sentences such as to be, to stay and to have. The occurrence of verbal sentences with prepositions (to live in, to like to, to go to...). The expression of opinions in situations that the use of sentences with the indicative is necessary. The expression in the future time. The pronouns and the numerals necessary to the communication. Direct and indirect speech Understanding/systematization of some different data in Portuguese/Chinese. All the items shall be accomplished together with activities, namely those that will give the student the opportunity to distinguish the phonetical traces of Portuguese language.

Pre-requisite: None

#### **LAWS6002 LEGAL LANGUAGE**

Legal language: Basic legal concepts. Legal logic. Judicial syllogism. Critique of legal language. Analysis of court decision. Fundamental legal documents legal procedure. Legal translations. Legislations. Legislative process and formalities.

Pre-requisite: None

#### **LAWS6003 HISTORY OF MACAU**

This course intends to familiarize students with the political, economic, and social history of Macao so that they can better understand what is happening today. We will examine the political and economic transformations of Macao over the past 450 years, the clash or cooperation of civilizations, religious life of people both Chinese and Portuguese, literature and art of and about Macao, and social issues and problems in Macao. By the end of the class, students should have a very good idea of Macao's past, present, and future

Pre-requisite: None

#### **LAWS6004 LEGAL HISTORY OF MACAU**

The course mainly addresses the historical evolution of political system of Macao. Part I: The political System of the Period of Internal Autonomy of Portuguese Residents (1557-1843). Part II: The political system of the period of overseas's province including Timor and Solor (1844-1895). Part III: The political system of Macao as a single overseas's province (1896-1975): The Period of Granting Autonomy of Colony (1896-1930), the 1995' Statute of Macao Province and 1963 and 1972' Political and Administrative Statute of Macao Province Part IV: The political system before and after the transition of power (1976-2005).

Pre-requisite: None

## **LAWS6005 GENERAL THEORY OF CIVIL LAW**

Introduction. The general theory of the juridical relations: its meaning and limitations.

1. The civil juridical relation (the statics and the dynamics of the juridical relation): Notion of juridical relation: functional notion ("concept of interest") and structural notion ("concept of precept"). Study of the juridical relation as a structural precept, the statics: core of the juridical relation: a) the rights in a broad meaning. Types: The rights in a proper meaning and the rights to establish, a change or terminate a legal relationship. Close concept: Legal faculties (primary and secondary) and legally protected expectations. Classes and types of rights. b) the legal duty and the submission. The external elements: parties, object, fact and warranty. Species, classes and types of juridical relations. Combinations of juridical relations (the patrimony theory). The Dynamics: main happenings in the life of a juridical relation: establishment and acquisition (primary and secondary), change and determination. Accidental happenings.

2. Persons. I - natural persons personality, subjectivity and legal capacity. Beginning of legal personality. Termination of legal personality. The protection of the personality. Legal capacity: Limitation on capacity (general and accidental) and the close concepts (illegitimacy). II - legal persons: Notion, elements, kinds, capacity, liability and termination.

3. The things.

4. The fact. Fact, act, and "negócio jurídico". Elements of the "negócio jurídico". Types of "negócio jurídico". The declaration of will. The interception of will. The interpretation. The perfection. The divergences and the vices of the will. The object. The representation of will, The accessory clauses. Integration, reduction and conversion of the "negócio jurídico". Invalidities.

Pre-requisite: None

## **LAWS6006 CONSTITUTIONAL LAW**

Part I General Characterization of Constitutional Law. Chapter I - The Constitution in the pre-modern political and juridical scene. Chapter II - The Constitution in the modern political and juridical scene. Chapter III - The Constitution as fundamental juridical statute of the State - Political Community. Chapter IV - The Constituent Power. Chapter V - The Constitution as source of law. Chapter VI - Liberalism and democracy.

Part II - The Basic Law of Macao SAR. Chapter I - One country and two systems. Chapter II. Relationship between the Central authorities and Macao SAR. Chapter III. Fundamental rights and duties of the residents. Chapter IV. Political structure. Chapter V. Economy system Chapter VI. External affairs. Chapter VII. The interpretation and amendment of the Basic Law. Chapter VIII. The protection of the constitution and the control acts of power.

Pre-requisite: None

## **LAWS6007 CRIMINAL LAW**

Part I - General considerations. Chap. I. Nature of Criminal Law. 1. Scope, function and limits of Criminal Law. 2. The aim of the penalties. Penalties and security measures 3. Evolution of Criminal Law. Chap. II - The criminal law and its application 4. Sources of Criminal Law 5. The application of Criminal Law 6. Validity of Criminal Law.

Part II - General Theory of Criminal Infraction. Introduction: the constitutive elements of crime 7. Classification of the crimes 8. The general theory of crime 9. Type of offenses. Chap. I - The Types of criminal offenses 10. The elements of the "type" 11. The objective attribution of the result to the behave 12. The criminal omissive behaviors. Chap. II - Type of justifications. 13. General principles 14. The singular justifying types. Chap. III - The type of guilty 15. The problem of guilt in Criminal Law 16. The malice type. The problem of the mistake 17. The negligence type 18. Obstacles to guilty. Non imputability, non exigibility. The non responsible lack of knowledge of the offense. Chap. IV - Special configurations of the crime 19. Attempt and frustration. "Iter criminis". The resistance 20. Comp participation. Perpetration and complicity. Chap. V - Cumulation of offenses. Legal accumulation. Real accumulation. Cumulative crime.

Pre-requisite: None

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## **LAWS6008 PUBLIC INTERNATIONAL LAW**

1. Conception and nature of Public International Law.
2. Sources of Public International Law: Treaties and customs.
3. The State: Elements of the State, the Recognition of State, Succession of states, Rights and Duties of the State.
4. International Organizations: definition and types. The UN.
5. The individuals in Public International Law: nationality and juridical statute of the foreigners.
6. Diplomatic and Consular relations Law.
7. The pacific resolution of the international conflicts: political resolution and juridical resolution of the international conflicts.
8. Problems of Public International Law about Macao. 8.1. The Sino-Portuguese Joint Declaration,
- 8.2. The capacity of Macao's Special Administrative Region in matters related with external affairs, according to the Basic Law of Macao SAR.

Pre-requisite: None

## **LAWS6009 ADMINISTRATIVE LAW I**

Chap. I - Public administration 1. Public Administration. Concept and different meanings. 2. Historical evolution. 3. Administrative systems: comparison between the continental-European system and the British system.

Chap. II - The administration and the Law 1. The principle of legality of Administration. Primacy of law and reservation for the Parliament (Legislative Power) the regulation of the principal matters (historical and modern meanings). 2. "Binding" (to the content of acts fixed by law) and "Discretionary" (cases that the legislator gives Administration the power to fix the content of its own acts). 3. The sources of Administrative Law: in special, the administrative Regulations.

Chap. III - The Administrative Activity 1. The dispositive facts. Typology (in special, torts). 2. Administrative act. Concept and meaning. Typology. 3. Instrumental acts. 4. The administrative procedure. 5. Effectiveness and legal strength of the administrative act: the possibility of execution by Administration of its own acts. 6. The structure of administrative act: the subject, the object and the statute. 7. The defects of the administrative act. Types of invalidity.

Chap. IV - The administrative justice. 1. Definition and scope of the administrative justice. 2. The problem of the administrative justice models. 3. The system of administrative justice in Macao. 4. Material and functional limits of the administrative justice. 5. The organs of the administrative justice. 6. The means to access to the administrative courts. 7. The processual requirements. 8. The tramitation of the administrative judicial processes. 9. The general principles of the administrative judicial process. 10. The judicial decisions and its effects.

Pre-requisite: None

## **LAWS6010 PUBLIC ADMINISTRATION**

I. Organizations of public administration: concept of public administration, complex of public administration, introduction to organizations of public administration, the public administration organization of Macao SAR, the legal system of public functionaries of Macao.

II. The legal relations of the legal system of public functionaries general introduction, subjects of legal relations, fact of legal relation, objects of legal relations, alternation of legal relation and termination of legal relations.

Pre-requisite: None

## **LAWS6011/LAWS6012 LEGAL LANGUAGE I / LEGAL LANGUAGE II**

Legal language: Basic legal concepts. Legal logic. Judicial syllogism. Critique of legal language. Analysis of court decision. Fundamental legal documents legal procedure. Legal translations. Legislations. Legislative process and formalities.

Pre-requisite: None

## **LAWS6013 PUBLIC ECONOMIC LAW**

The meaning of Public Economy - Financial Activity of State: Expenses, Revenues and Budget. Economic Activity of State: Characterization of Public Economic activity and the Enterprise

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activity of State - Public Revenues - Public Expenses - Public Budget - Financial Policy problems.

Pre-requisite: None

### **LAWS6014 CRIMINAL PROCEDURE LAW**

Part I. Legal consequences of the crime. 1. The legal consequences of the crime and the criminal penalty. 2. The reaction to crime of the criminal law in force in Macao in the context of the criminal policy models. 3. Preliminary penalties, a) Primary penalties and secondary penalties. b) The substitution penalties in the system in force in Macao. 4. The imprisonment penalty and the fine. 5. The general theories on the determination of the penalty. 6. Steps on the determination of the penalty. a) Mitigation circumstances and aggravity circumstances. b) The criterium of the article 84 of the criminal code. c) Judicial determination of the penalty.

Part II - Criminal Procedure. 1. Meaning and the aim of the criminal procedure law. 2. Place of the criminal procedure law in the legal system. 3. The application of the criminal procedure law. 4. General principles of the criminal procedure. 5. Injunctions. 6. Evidence in the criminal procedure. 7. The forms of the criminal procedure. 8. The inquiry. 9. The instruction. 10. The trial. 11. The appeals in the criminal procedure.

Pre-requisite: None

### **LAWS6015 OBLIGATION LAW**

I. Introduction. The Obligation. The Rendering. Complex Obligational Relationship. The role of Obligation. Obligations and rights in rem. Systematic principles of Contracts Law. the principle of private autonomy; the principle of good faith, the principle of non unjust enrichment.

II. Sources of obligations. Contracts. Unilateral acts. "Negotiorum Gestio". Unjust enrichment. Civil liability. Contractual responsibility. Extracontractual responsibility: torts, risk activities liability and responsibility for lawful acts.

III. Kind of obligations. About the lien: natural and civil obligations. About the parties: conjunctive obligations and joint and several obligations. About the object.

IV. Transmission of Obligations. Credit and Debits transmission. Credits assignment. Subrogation. Single transmission of debts. Assignment of contractual position.

V. General Security of Obligations. Means for the maintenance of Patrimonial Security. Nullity declaration. Creditor subrogation over the debtor. "Pauliana" Opposition. Attachment.

VI. Special Security of Obligations. Personal and Real securities. Bonds. Guaranty.

VII. Fulfilment and Unfulfilment of Obligations. 7.1. Fulfilment. 7.2. Unfulfilment. Impossibility of fulfilment and default not concerning to the debtor. Unfulfilment and default attributable to the debtor. 7.3. Defective fulfilment. 7.4. Contractual set of creditor rights. 7.5. Coercive means for realization of rendering. 7.6. Property assignment. 7.7. Creditor default.

VIII. Causes of extinguishment of Obligations besides fulfilment.

IX. Contracts. Typical and No typical contracts. Mixed contracts and contracts in coalition Enumeration and concise characterisation of typical contracts ruled by Civil Code. Game and Bet.

Pre-requisite: None

### **LAWS6016 PROPERTY LAW**

Introduction. I - The real property rights in general: Definition - structural and functional perspective. Constitutive principles of "ius in rem" -1. Internal principles. External principles. Characteristics of real property rights. The great manners to order the ways of dominance. Types of "ius in rem". II - Possession (provisional order of dominance) Definition of possession. The greatest problems of possession. Possession systems. The system of Macao. Possession with cause and formal possession. Possession and mere detention. Rights that can be possessed. Things that can be possessed. Capacity for possess. Characteristics of possession. Acquisition of possession. Effects of possession a) The protection of the possession (the means for defend the possession). b) The adverse possession (usucapio). III - In special, real property rights (ius in rem) (definitive order of dominance). Real property rights of use - Property. Joint ownership. "horizontal" ownership - The usufruct - The use - Superficial right - Real servitudes.

Pre-requisite: None

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## **LAWS6017 CIVIL PROCEDURE LAW I**

I. Introduction, Procedure and Processual Law. Jurisdiction and jurisdictional function. General frame of the action in civil jurisdiction. Civil Procedure Law.

II. The action. The right to a legal action. Legal classification of the actions: according to their goal, according to their form. Interlocutory injunctions.

III. Civil Procedure Law. Concept. Features. Importance. Interpretation and integration. Application in time. Application in space.

IV. Sources of the Portuguese Civil Procedure Law and close Disciplines. Historical evolution.

V. Theory of the Procedural Relation. The instance as a procedural relation. The structure of procedural relation. 1. The subjects. 1.1 The parties. Procedural requisites concerning the parties. Judiciary personality. Judiciary capacity. Legitimization. Compulsive representation by an attorney at law. Special mention to Macao. The procedural interest. 1.2. The court. The judicial organization. Jurisdiction. 2. The object. The claim and the cause of action.

VI. The procedural act. Concept. Form. Time. Place. Parties. Goal. Pathology.

VII. Dynamics of the procedural Relation. The bringing of a suit. Development of the instance. Modifications. Suspension and interruption. Conclusion. Incidents.

VII I. Formalities of the Ordinary Declaratory Process. Phases. 1. Articulated pleading. Declaration. "In limine" Order. Service of process. The Answer: Defensive-answer. Counterclaim-answer. The Replication. The Rejoinder. Supervening articulated pleadings. 2. Healing and Abridgement. Preparatory hearing. Curative decision. Specification and Questionnaire. 3. The instruction. The evidences in general. Material probative law. Formal probative law. The burden of proof. Fundamental principles. Means of proof. 4. Trial. Final hearing. 5. Final decision. "Res judicata".

IX. Formalities of the Summary Declaratory Process

X. Judicial Organization of Macao. Comparative perspective.

Pre-requisite: None

## **LAWS6018 ADMINISTRATIVE LAW II**

Administrative Judiciary. I - The Principle of Separation of Powers. II - Delimitation of the concept of administrative judiciary or the administrative contentious proceeding. III - Administrative juridical relations that produce external effects as the object of the administrative contentious proceeding. IV - The established administrative judiciary system. V - The organization of administrative judiciary system - The models (in Macao and in Portugal). VI - The means for judicial protection of citizens before Public Administration. VII - Conditions for suing. VII I - Judicial process-regarding principles. IX - The contentious remedy for voidance of administrative acts (proceeding, decision and effects of decision). X - The suspension of the effects of the acts. XI - The judicial procedure for recognition of rights or legitimate interests.

Pre-requisite: None

## **LAWS6019 FAMILY AND SUCCESSION LAW**

I. Introduction. Legal conception of Family and Succession and the succession phenomenon. Family and Succession Law. Sources and constitutional principles. Characteristics of Family and Succession Law and characteristics of family and succession rights.

II. Family relations. 2.1 . Blood relations. Filiation. Filiation set. Maternity and Paternity set. 2.2. Affinity. 2.3. Adoption. 2.4. The marriage. Matrimonial systems. 2.5. Union in fact.

III. The matrimonial relationship. 3.1 . Constitution: the marriage as an act. 3.1.1. Civil marriage. 3.1.2. Catholic marriage. 3.2. Effects of marriage: the marriage as a "status". 3.2. 1 . Personal effects. 3.2.2. Patrimonial effects. Marriage property systems. The administration of marriage property. Illegitimate acts. Liability for debts of the spouses. 3.2.3 Termination of the relationship. Distribution of community property. 3.3. Alterations in matrimonial status. Judicial separation of property and judicial separation of spouses and property. 3.4. Marriage termination. Causes of dissolution of Civil and Catholic marriage. The death. The divorce.

IV. The succession. The death as a presupposition of the succession. Introduction to the different kind of succession. Heir and Legatee. Opening of Succession. Descent Calling. Descent Designation. Content of descent calling. Object of descent calling. Presuppositions of descent calling. Forms of descent calling. Indirect calling: right of representation, straight

substitution, right of accretion. Vacant succession. Descent Acquisition. Inheritance acceptance. Inheritance rejection. Inheritance petition. Inheritance disposal. Inheritance charges. Inheritance distribution.

V. Kinds of Succession. 5.1 . Legal succession. 5.2. Legitimate succession. 5.3. Testate succession. 5.4. Contractual succession.

Pre-requisite: None

### **LAWS6020 COMMERCIAL LAW**

Introduction to commercial law, Merchants: commercial capacity, obligations, liability of married couple assets for commercial debts. The firm, Competition law; Unfair competition law. Commercial paper. Kinds of Negotiable Instruments. The legal regimen of the Bill of Exchange. The draw. The accept. The endorsement. The aval. Liability of the subscribers.

Pre-requisite: None

### **LAWS6021 PRIVATE INTERNATIONAL LAW**

I - 1. On the dogmatic object of Private International Law structure (types of) private international relations. 2. The debate on method: comparison between the American methodological perspective on PIL and the classical European approach. 3. General interests or regulation values. 4. General theory of the conflict rule and determination of its functional limits 4.0. Structure and function of the conflict rule in PIL, 4.1. Classification 4.2. Renvoi (remission/transmission). 4.3. The principle of "vested rights", 5. The eviction of foreign law: the undetermined general clause of public policy ("ordre public"). 6. The "fraus legis" in Private International Law, Recognition of foreign sentences.

II - 1. The specific relevance of personal law in Private international Law. 2. The historical evolution of Private International Law and the progressive autonomy of the problems on the determination of personal law. 3. General interests of PIL and its projection on the conflict of laws concerning personal matters: the protection of the principle of unity in this area. 4. The relevance of the developing comparative analysis on the matter. 5. Marriage in PIL: the distinct importance of the contractual dimension and of the institutional one. 6. Divorce and separation by law in PIL. 7. Legitimacy, legitimization and adoption and determination of the structure of family relations by those means constituted. 8. Succession law in PIL.

Pre-requisite: None

### **LAWS6022 NOTARY AND REGISTRAL LAW**

I. Concept: 1. The structure and function of registry and notary agencies of Macao SAR. 2. The similar organs and functional difference. 3. The common perspectives of public administration with private interest: Prevention of conflict as an indispensable contribution in administration of justice.

II. The statute law of registry and notary : 1 . Organic law. 2. Law codes. 3. Separate legislation.

III. Law of civil registry.1 . Concept and scope. 2. Theory and practice.3. Principle of information.

IV. Law of Registry of House. 1. Concept and scale 2. Theory and practice. 3. Principle of information 4. Commercial registry and registry of automobiles, ships and airplanes.

V. Notary Law. 1. Concept and scope. 2. Theory and practice. 3. Principle of information.

Pre-requisite: None

### **LAWS6023 CIVIL PROCEDURE LAW II**

Executory action. I. General Theory of the executory action. Concept and goals. The legal classification. II. Procedural requisites of the executory action. 1. Specific requisites. Formal and substantial requisites. The executory document. Legal nature. Historical evolution. Classification Consequences of the lack of executory document or of its non-execution. Certainty and exigibility of the debt: The liquidated debt. 2. General requisites of the executory action. International and internal jurisdiction. Formal legitimization. Compulsive representation by and attorney at the Law. III. Forms of the executive process. Legal form of the different species and forms of execution. IV. The phases of the executive process. 1. Ordinary executive process for the payment of a right amount. Phases: Articulates. Initially pleading. "in limine" decision. Service of process. Opposition. Attachment: definition, object, cases of withdrawing

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from execution and forced sale. Opposition to the attachment. Finding. Concurrence of creditor claims. Reclamation and verification of claims. Proceeding. Payment. Forms of payment. Termination of the execution. Voidance and renovation of the executory action. 2. Summary executive process for the payment of a right amount. 3. Common executive process for delivery of determinated thing. Ordinary and summary processes. 4. Common executive process for rendering a certain fact positive or negative. Ordinary and summary processes.  
Pre-requisite: None

### **LAWS6024 THE JUDICIAL AND LEGAL PROFESSION**

Part I. 1. Administration of justice: Generality. 2. Organs exercising jurisdictional function. 3. Classification of courts. 4. Hierarchy of courts. 5. Principle regulating administration of justice. 6. The relevant statute laws. 6.1. The Basic Law of Macao SAR. 6.2. The Basic Law of Judicial Organization. 6.3. Civil Procedural Code.

Part II. - Litigation Practice. 1. The judicial protection in Macao SAR. 2. Legal profession. 3. Judicial mandate. 4. The organs and entities with specific function of this area. 5. The relevant statute laws. 5.1. The Basic Law of Macao SAR. 5.2. The Basic Law of Judicial Organization. 5.3. The statute of lawyers and the relevant moral and disciplinary regulations.

Pre-requisite: None

### **LAWS6025 LEGAL LANGUAGE III**

Legal language: Basic legal concepts. Legal logic. Judicial syllogism. Critique of legal language. Analysis of court decision. Fundamental legal documents legal procedure. Legal translations. Legislations. Legislative process and formalities.

Pre-requisite: None

## **BACHELOR OF LAW (CHINESE) - DAYTIME & BACHELOR OF LAW (CHINESE AND PORTUGUESE)**

*\*Please refer to the Study Plan for the full list of courses of the respective programme.*

### **LAWS1000/LAWS1001 INTRODUCTION TO LAW**

Title I. The concept of Law. Chapter I. The Law as part of the whole social order. 1. The Law and other normative orders. 2. The religion. 3. The ethic. 4. The social behavior. Title II. The aims or values of the Law. Chapter I. Justice and security. Title III. The structure of the Law. Chapter I. The rule of Law. Title IV. Sources of Law. Chapter I. voluntary sources of Law and non-voluntary sources of Law. Title V. Interpretation of the Law. Chapter I. Types of interpretation. 1. Elements of interpretation. 2. Results of the interpretation. Chapter II. Integration of the gaps in the Law. 1. Analogy. 2. Creation of a ad hoc rule.

Pre-requisite: None

### **LAWS1002 LEGAL HISTORY**

Title I. Chapter I. Legal thoughts in traditional Chinese society. 1. Divine Law 2. Patriarchal law 3. Confucianism. 4. Legalism. Chapter II. Legal and political thoughts in Modern China. Chapter III. 1. Legal History of Macao. 1.1 Introduction. 1.2 Specificity and sources of law of overseas Portuguese territories. 1.3 Law and justice. 1.3.1. Portuguese law and local laws, scope of application. 1.3.2 Indigenous law and the mixed relations. 1.3.3 Legal pluralism and mixed jurisdiction in Macao. 1.3.4. Judicial organization of Macao. Title II. Chapter I. Introduction. 1. Social history of law. Chapter II. The formation of the Common Law. 1. The Roman Law. Sources: (Corpus Iuris Civilis). General Characteristics of the Praetor's Law. The evolution of Roman law until the imperial constitutions. vulgarrecht. 2. Legal pluralism. The role of legal thought in the formation and evolution of the common law. The glossators, commentators, mos gallicus iura docendi, usus modernus pandectarum and naturalists. Chapter III. Philosophy of Law. 1. Legal positivism, legal, historical, sociological and conceptual. 2. Pure theory of law and the right alternative use.

Pre-requisite: None

### **LAWS1003/LAWS1004 CONSTITUTIONAL LAW**

Title I. General notions of Constitutionalism. Chapter I. Constitution as legal statute of politics. 1. The autonomy of public sphere. 2. State as a political form of modernity. 3. The crisis of State: regionalism and globalization. Chapter II. From Constitutionality to Inter-constitutionality. 1. The hierarchical and normative scheme of the constitution of the supervising state. 2. The binding inter-constitutionality of the supervised State. 3. Democracy and rule of law. Chapter III. Comparative Constitutional Law. 1. The Portuguese constitutional experience. 2. The Chinese constitutional experience. 3. The evolution of Macao autonomic status.

Pre-requisite: None

### **LAWS1005/LAWS1006 MACAO BASIC LAW**

Title I. The Basic Law of the Macao SAR. Chapter I. Characterizing the Macao SAR. 1. Macao SAR as a political region. 2. Scope of autonomy of Macao SAR. 3. Macao SAR's political system. Chapter II. Purposes of Basic Law. 1. Theories on the purposes of Basic Law. 2. Art. 31 of the CPRC and its double task. 3. Luso-Chinese joint-declaration. Chapter III. Legal nature of the Basic Law. 1. Ideas on the legal nature of the Basic Law. 2. Basic Law as an ordinary legal norm. 3. Basic Law as statutory legal norm. 4. Basic Law as a reinforced legal norm. 5. Basic Law as a material constitutional legal norm. Chapter IV. Guaranty of the Basic Law. 1. Interpretation of the Basic law. 2. Guaranty of the reinforced value of the Basic Law. 3. Limits to revision of the Basic Law.

Pre-requisite: LAWS1003 and LAWS1004

### **LAWS1007/LAWS1008 PUBLIC INTERNATIONAL LAW**

1. Concept and nature of Public International Law. 2. Relationship between International and Domestic Law. 3. Sources of Public International Law: treaties and customary norms. 4. International Legal Personality. 5. The State: elements of the State, the recognition of State, succession of states, rights and duties of the State. 6. International Organizations: definition and types. The United Nations. 7. Diplomatic and Consular relations Law. 8. The pacific resolution of the international conflicts. 9. Individuals in Public International Law. 10. Application of Public International Law to Macao.

Pre-requisite: None

### **LAWS1015 ENHANCEMENT LEARNING ACTIVITIES**

Apart from regular legal courses, students are encouraged to participate in other activities, such as attending seminars, participating in competitions, sharing and discussing legal problems with one another.

Pre-requisite: None

### **LAWS1016 PUBLIC ECONOMICS**

The meaning of Public Economy - Financial Activity of State: Expenses, Revenues and Budget. Economic Activity of State: Characterization of Public Economic activity and the Enterprise activity of State - Public Revenues - Public Expenses - Public Budget - Financial Policy problems.

Pre-requisite: LAWS2006 and LAWS2007

### **LAWS1017 TAX LAW**

Introduction.I. Tax Law. Historical background. Theory of taxation. Taxes and other contributions. Administrative taxation procedure. Classification of taxes. Definition of Taxes. Tax law and other fields of law. Constitutional Law. Administrative Law. Commercial law. Private Law. Criminal Law. International Law.II. Tax Jurisdiction. Sources of tax law. General principles of law. International and interregional tax law agreements. Customary law. Jurisprudence. Doctrine. Interpretation of tax laws. Integration of tax laws. Application of tax laws in time and space. Double taxation. Tax avoidance and tax evasion. International exchange of tax information.III. Legal relation. Nature. Parties. Tax obligation. Tax duties and

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warranties. Execution procedure.IV. Taxation in Macao. Evolution. Taxation on income. Taxation of property. Taxation of services. Stamp duty. Special Gaming Tax. Other taxes. Pre-requisite: LAWS2006 and LAWS2007

### **LAWS1020 REGISTRY AND NOTARY LAW**

I. Concept: 1. the structure and function of registry and notary agencies of Macao SAR. 2. The similar organs and functional difference. 3. The common perspectives of public administration with private interest: Prevention of conflict as an indispensable contribution in administration of justice.II. The statute law of registry and notary: 1. Organic law. 2. Law codes. 3. Separate legislation.III. Law of civil registry. 1. Concept and scope. 2. Theory and practice. 3. Principle of information. IV. Law of Registry of House. 1. Concept and scale 2. Theory and practice. 3. Principle of information. 4. Commercial registry and registry of automobiles, ships and airplanes. V. Notary Law. 1. Concept and scope. 2. Theory and practice. 3. Principle of information. Pre-requisite: LAWS3002 and LAWS3047, LAWS3014 and LAWS3015

### **LAWS1021 FORENSIC MEDICINE**

Forensic Medicine (concept, organization). Corporal offenses. Forensic sexology. Medical reports and certificates. Sudden natural death. Identification. Violent death. Injury and death from physical agents. Wounding. Asphyxia. Immersion and drowning. Sexual offenses. Abortion and Pregnancy. Infant deaths. Poisoning and drugs. Alcohol abuse. Forensic Psychiatry. Labor Forensic Medicine. Medical ethic, responsibility and negligence. Transplantation of organs and tissues practice of observations (autopsy, medico-legal examinations). Pre-requisite: None

### **LAWS1023 JURIDICAL PRACTICE**

Part I. 1. Administration of justice: Generality. 2. Organs exercising jurisdictional function. 3. Classification of courts. 4. Hierarchy of courts. 5. Principle regulating administration of justice 6. The relevant statute laws. 6.1. The Basic Law of Macao SAR. 6.2. The Basic Law of Judicial Organization. 6.3. Civil Procedural Code. Part II. - Litigation Practice. 1. The judicial protection in Macao SAR. 2. Legal profession. 3. Judicial mandate. 4. The organs and entities with specific function of this area. 5. The relevant statute laws. 5.1. The Basic Law of Macao SAR. 5.2. The Basic Law of Judicial Organization. 5.3. The statute of lawyers and the relevant moral and disciplinary regulations. Pre-requisite: LAWS3018 and LAWS3050

### **LAWS1024 GENERAL THEORY OF CHINESE LAW**

Part I. - 1. The characteristics of legal system of ancient China. 2. People's Republic of China (PRC) Constitution Political and Economical fundamental principles settled by the Constitution, The State Organs of PRC, Rights and Duties of Chinese citizens. 3. PRC Criminal Law: range of application of criminal law, Conception and constitution of crime, Penalties, Measure of Penalties, the Special Provisions of Criminal Law. 4. Criminal Procedure in PRC: jurisdiction, evidences, mandatory injunctions. The Accusation, 1st and 2nd stages procedures, Execution. 5. PRC Administrative: Administrative institutions, administrative act, the Law of civil servants. Hierarchy Claims and Administrative Procedure. Part II.- 1. Civil Law of PRC: general principles of Civil Law, the parties of the civil juridical relationship, civil juridical acts, the right of property, contracts, civil liability. 2. The marriage and successions law: marriage regimens, divorce regimens and procedures, blood relations and affinity, inheritance, legal succession, testate succession. 3. Company Law general regimen and types of companies, limited companies, partnership associations and business corporations. 4. PRC Foreign Economy Law: Joint venture enterprises, foreign enterprises, the law of joint administration of companies, PRC use of land law, Tax law related to foreign companies. Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS1026 PORTUGUESE LEGAL LANGUAGE**

Legal language: Basic legal concepts. Legal logic. Judicial syllogism. Critique of legal language. Analysis of court decision. Fundamental legal documents legal procedure. Legal translations. Legislations. Legislative process and formalities.

Pre-requisite: LAWS3012 and LAWS3049, LAWS3014 and LAWS3015, LAWS3016 and LAWS3017, LAWS3018 and LAWS3050

### **LAWS1027 INTRODUCTION TO ALTERNATIVE DISPUTE RESOLUTION**

This course will provide in-depth introduction to the alternative dispute resolution, including arbitration and mediation, and its linkage and connection with court adjudication. It will cover the law and practice of ADR in both civil law and common law jurisdictions, with a focus on its application in Macao.

Pre-requisite: LAWS2000 and LAWS2001

### **LAWS2000/LAWS2001 GENERAL THEORY OF CIVIL LAW I**

Title I. Introduction. 1. General concepts of civil law. 2. Preliminaries. Title II. General theory of the civil juridical order. Chapter I. Sources of civil law. Chapter II. Fundamental principles of civil law. Title III – General theory of the civil juridical relationship. Chapter I. General theory of the individuals of the juridical relationship. 1. General concepts. 2. Natural persons. 3. Legal persons. Chapter II. General theory of the object of the juridical relationship. 1. General concepts. 2. Things and patrimony.

Pre-requisite: LAWS1000 and LAWS1001

### **LAWS2002/LAWS2003 GENERAL THEORY OF CIVIL LAW II**

Title I. General theory of the civil juridical relationship (cont.). Chapter I. General theory of the juridical fact. 1. About juridical facts in general: concepts and classifications; acquisition, modification and extinction of juridical relationships; juridical transaction and simple juridical act. 2. Transactional declaration: general concepts; interpretation and integration of juridical transactions; divergence between the intention and the declaration; defects of the intention; representation in juridical transactions. 3. Transactional object. 4. Accidental elements of juridical transactions. 5. Ineffectiveness and invalidity of juridical transactions: general concepts; invalidities; reduction and conversion of juridical transactions.

Pre-requisite: LAWS1005 and LAWS1006, LAWS2000 and LAWS2001

### **LAWS2004/LAWS2005 ADMINISTRATIVE LAW I**

I. Public administration 1. Public Administration. Concept and different meanings. 2. Historical evolution. 3. Public Administration and the other State functions 4. Administrative systems: comparison between the continental-European system and the British system. II. Administrative organization 1. The structure of the public administration 2. Types of inter-organic relations: hierarchy, superintendence and supervision; delegation of powers 3. The Administrative organization of the Macao SAR. III. The administration and the Law 1. Public Administration and private law 2. Public administration and administrative law: the principle of legality of Administration. 3. Activity bound by the law and discretionary activity: the administrative discretionary activity. 4. Sources of administrative law: in special, the administrative Regulations.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS2006/LAWS2007 ADMINISTRATIVE LAW II**

I. The Administrative Activity. 1. General notions: legal facts in administrative law; in special the administrative illicit 2. Administrative activity. II. The regulatory power. 1. Notion, function and grounds for the administrative regulations 2. The administrative regulations and the law: admissibility of the independent regulations. 3. The regulatory procedure. III. Administrative act 1. Notion and meaning 2. Typology 3. Instrumental acts. 4. The administrative procedure. 5. Effectiveness and legal strength of the administrative act: the possibility of execution by Administration of its own acts. 6. The structure of the administrative act: the subject, the object and the declaration. 7. The defects of the administrative act. Types of invalidity. IV. The

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administrative contract 1. General notions: the public administration, consensus and authority.  
2. Legal regime: formation, content and principles relating to the 'life' of the administrative contracts. Invalidation of administrative contracts.  
Pre-requisite: LAWS2004 and LAWS2005

### **LAWS2012 ECONOMICS**

1. Offer and demand. 2. Consumers and Producers decisions. 3. The structure of the Market.  
4. The National Income Accounting and the determination of the national income theory. 5. Financial and Monetary Policies. 6. Inflation and Unemployment. 7. Economic System and Development of Regional Economy.  
Pre-requisite: LAWS1000 and LAWS1001

### **LAWS3000/LAWS3046 OBLIGATION LAW I**

Chapter I. Introduction. 2. Obligation law and the importance of its study. 2. Reference to Comparative Law. 3. Guiding principles of Civil Law and Obligation Law. 4. General notions. Obligation *stricto sensu*. Performance of the obligation. The problem of non-autonomous obligations. Complex 'obligational' relation. Function of the obligation and the interests of the creditor. 5. Credit rights and property rights. The external effect of obligations. 6. Guiding Principles of Obligation Law. Principle of individual autonomy and contractual freedom. Principle of good faith. Principle of the unjust enrichment. Chapter II. Sources of obligations. 1. Contracts. Contractual relations. 2.1. Promissory contract. 2.2. Preference pact. 2.3. Exception of non-performance. Termination of the contract. 3. Unilateral transactions. 4. Management of alien affairs. 5. Unjust enrichment. 6. Civil Liability. 6.1. Contractual and non contractual liability. 6.2. Liability for unlawful actions. Requirements and regime of the obligation on compensation. The function of civil liability. 6.3. Objective Liability. Liability of the committer. Liability of public legal persons by acts of private management. Liability for damages caused by animals. Liability for damages caused by terrestrial circulation vehicles. Liability for damages caused by electrical energy or gas installations. 6.4. Liability for legal actions. 6.5. Mandatory civil liability insurance. 6.6. Mandatory automobile civil liability insurance. 6.7. Limitations to the liability and the right to compensation.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3002/LAWS3047 OBLIGATION LAW II**

Chapter I. Modalities of obligations. 1. Obligations in relation to their binding: the natural and civil obligations. 2. Obligations in relation to the individuals: conjoint and jointly liable obligations. 3. Obligations in relation to the object. Pecuniary, interest and compensation obligations. Chapter II Transfer of obligations. 1. Transfer of credit. Sub-rogation. 2. Individual transfer of debts. 3. Cession of the contractual position. Chapter III General security of obligations. 1. Scope. 2. Protection of patrimonial guarantees. Void contracts. Sub-rogation of the creditor to the debtor. *Actio pauliana*. Seizure of assets. Chapter IV. Special security of obligations. 1. Personal and real securities. 2. Bail. 3. Real securities. 4. Bond. Chapter V. Performance and non performance of obligations. 1. Performance. Performance and principle of good faith. Timeliness of obligations. Who can perform and to whom can the obligation be performed. Place and deadline of the performance. Allocation and evidence of performance. 2. Non performance. Impossibility and delay not imputable to the debtor. Impossibility and delay imputable to the debtor. 3. Defective performance. 4. Contractual regulation of the rights of the creditor. Penalty clause. 5. Forced execution of the credit. Action to enforce the performance, specific performance, performance by equivalent. 6. Cession of assets to the creditors. 7. Delay of the creditor. Chapter VI. Causes of extinction of obligations besides the performance. Chapter VII. Special contracts. 1. Contracts regulated and not regulated in the law. 2. Mixed contracts and contracts related. 3. Contracts regulated in the Civil Code. 4. Gaming and betting. General and special features of gaming and betting.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046

### **LAWS3004/LAWS3005 LABOUR LAW**

Title I. Labour Law: concept, object and importance. Chapter I. Historical evolution of Labour



Law. Chapter II. Sources of Labour Law. Title II. The labour contract. Chapter I. Concept, elements and legal characteristics of the labour contract. Title III. The formation of the labour contract. Chapter I. Parts of the labour contract. 1. Employee. 2. Employer. 3. Rights and duties. Chapter II. Types of employment contracts. 1. Indefinite duration period. 2. Fixed term and non-fixed term. Chapter III. Probationary period. Chapter IV. Employment of minors. Title IV. Working time. Chapter I. Normal working hours. 1. Exemption for the working time schedule. 2. Overtime work. 3. Night work. 4. Shift work. Chapter II. Periods of rest. 1. Weekly rest. 2. Holidays. 3. Annual leave. 4. Absences. 5. Maternity leave. Title V. Salary. Chapter I. Types of salary. 1. Basic remuneration. 2. Variable remuneration. 3. Calculation of the retribution. 4. Compensation and deductions on salary. Title VI. Termination of the labour relation. Chapter I. Forms of termination. 1. Revocation. 2. Resolution. 3. Rescission. 4. Expiry. Title VII. Labour relations with non-residents workers. Title VIII. Social Security.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3006/LAWS3007 COMMERCIAL LAW I**

Title I. The exercise of commercial entrepreneurs in general. Chapter I. 1. Introduction to Commercial Law. 2. The commercial law as the law 'around' the business. Chapter II. Commercial enterprise and Commercial entrepreneurs. 1. Commercial entrepreneurs and acts of commerce. Chapter III. Commercial entrepreneurs. 1. Commercial capacity, Impediments and incompatibilities. 2. Legitimacy. 3. Obligations of commercial entrepreneurs. 3.1. Firm. 3.2. Commercial bookkeeping. 3.3. Commercial register. 3.4. Render accounts. Chapter IV. Representation in the performance of an enterprise. 1. Managers. 2. Assistants of an entrepreneur. Chapter V. Liability for the exercise of an commercial enterprise. 1. Liability for debts contracted in the exercise of an enterprise. 2. Liability for defective products. Chapter VI. A commercial enterprise as an object of business. 1. The right over the enterprise and the rights on the assets of the enterprise. 2. The commercial enterprise as object of contracts. 2.1. The transfer of the commercial enterprise. 2.2. Lease of commercial enterprise. 3. Usufruct of commercial enterprise. 4. Pledge of commercial enterprise. Chapter VII. Trade distinctive signs. 1. Firm (remission). 2. Name and emblem. 3. Trademark. Chapter VIII. Competition legal discipline. 1. Competition in general. 2. Unfair competition. Title II. Negotiable instruments. Chapter I. Negotiable instrument in general. Chapter II. Bill of exchange. 1. Typical notes of the obligation incorporated in a negotiable instrument. 2. Requisites of the bill of exchange. 2.1. Essential requisites. 2.2. Non essential requisites. 3. Legal institutes of the Bill of Exchange. 3.1. Drawing. 3.2. Endorsement. 3.3. Acceptance. 3.4. 'Aval'. 3.5. Types of maturity. 3.6. Recourse.

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3008/LAWS3009 COMMERCIAL LAW II**

Title I. Commercial companies in general. Chapter I. Notion of commercial company and related figures. Chapter II. Brief historical reference. Chapter III. Types of commercial companies. Title II. Constitution and functioning of commercial companies. Chapter I. Constitution of commercial companies. Chapter II. Legal personality and capacity of commercial companies. Chapter III. On the shares. Chapter IV. Capital and legal capital, profits and losses. Chapter V. Company organs. 1. Administration. 2. General Meeting. 2.1. Company resolutions. 2.2. Ineffectiveness of company resolutions. 2.2.1. Resolutions ineffective. 2.2.2. Void resolutions. 2.2.3. Voidable resolutions. 2.2.4. Nonexistent resolutions. 3. Supervisory Board and single supervisor. 4. The company secretary. 5. The liability of members of company organs. Title III. Amendment of the articles of association. Chapter I. Amendments to the articles of association. 1. Generalities. 2. Increase or reduction of the company capital. 3. Modification of the company object. Chapter II. Mergers and divisions of companies. Chapter III. Transformation of companies. Title IV. Extinction of commercial companies. Chapter I. Winding up of commercial companies. Chapter II. Liquidation of commercial companies.

Pre-requisite: LAWS3006 and LAWS3007

### **LAWS3010/LAWS3048 CRIMINAL LAW I**

刑法學課程目標的是讓學生在本科學階段了解和掌握大陸法系刑法理論的基礎知識 (The goal of

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the Criminal Law course is to enable students to understand and master the basic knowledge of Criminal Law theory at the undergraduate stage).

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3012/LAWS3049 CRIMINAL LAW II**

刑法學課程目標的是讓學生在本科學階段了解和掌握大陸法系刑法理論的基礎知識 (The goal of the Criminal Law course is to enable students to understand and master the basic knowledge of Criminal Law theory at the undergraduate stage).

Pre-requisite: LAWS3010 and LAWS3048

### **LAWS3014/LAWS3015 PROPERTY LAW**

Introduction (evolution of the systems of real property rights). I. Notion of real property right. II. Characteristics of the real property rights. III. The real property rights. Community property. Joint ownership. Horizontal ownership. IV. Limited real property rights. The usufruct. The use and habitation rights. Timesharing right. Superficial right. Emphyteusis constituted before the new Civil Code of Macao. Real property rights resulting from concession of government land in Macao: granted dominium utile; ownership of buildings on leased land. Abstract on real property rights for acquisition and for real security. V. Possession. Definition. Possession and mere detention. Rights that can be possessed. Things that can be possessed. Capacity for possess. Characteristics of possession. Acquisition of possession. The protection of the possession: Rights resulting from the possession; Legal actions to defend the possession. Usucapio (the adverse possession).

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3016/LAWS3017 ADMINISTRATIVE LAW III**

I. Introduction. 1. Administrative justice. 2. Separation of powers. 3. Main historical models of administrative justice. 4. Subjective and objective models. II. Evolution of the judicial review in Macao. 1. Jurisdictional competence within the judicial review in Macao. The administrative Court. Appeal Courts. Judicial organization in Macao. III. Mechanisms of Judicial review. 1. Judicial review. 1.1 Concept and nature. 1.2 General principles. 1.3 Administrative acts that can be judicially reviewed. 1.4 Procedural requirements 1.5 Standing of the parties 1.6 Proceeding. 2. Special judicial remedies 2.1 Judicial review of norms 2.2 Electoral litigation 2.3 Administrative infractions 3. Administrative Actions 3.1 Judicial action on administrative contracts 3.2 Judicial action on torts liability 3.3 Injunction. Judicial action to compel the practice of an administrative act 3.4 Judicial action for the protection of rights and lawful interests. 4. Interim Measures. 4.1 Suspension of the effects of an administrative decision. 4.2 Provisionary injunction. 4.3 Production of endangered evidence. 4.4 Other interim measures. IV. Judicial Decisions 1. Legal effects of the judicial decisions V. Judicial appeals 1. Right to appeal 2. Legal regime. VI. Execution of judicial decisions. 1. Execution for the delivery of an asset or performance in kind. 2. Execution for payment of an amount 3. Guarantees against illegitimate non execution. VII. Arbitration 1. Ambit. 2. Appeal of arbitration. 3. Arbitration centers.

Pre-requisite: LAWS2006 and LAWS2007

### **LAWS3018/LAWS3050 CIVIL PROCEDURAL LAW I**

I. Introduction. Procedure and Procedural Law. Jurisdiction and jurisdictional function. General frame of the action in civil jurisdiction. II. The action. The right to a legal action. Legal classification of the actions: according to their goal, according to their form. Interlocutory injunctions. III. Civil Procedure Law. Concept. Features. Importance. Interpretation and integration of its norms. Application in time. Application in space. IV. Sources of the Portuguese Civil Procedure Law and close Disciplines. Historical evolution. Special mention of Macao. V. Theory of the Procedural Relationship. The instance as a procedural relationship. The structure of procedural relationship. The parties. Procedural requisites concerning the parties. Judiciary personality. Judiciary capacity. Legitimization. Compulsive representation by an attorney at law. The procedural interest. The court. The judicial organization. Jurisdiction and competence. The object of the procedural relation. The claim and the cause of action. VI. The process forms. Common process and special processes. Ordinary and summary common process. Special

process of small claims.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046, LAWS4000 and LAWS4001

### **LAWS4000/LAWS4001 FAMILY LAW**

Chapter I. Introduction. 1. Legal notion of family. 2. Constitutional principles. 3. Sources of Family Law. 4. Features of family law and of family rights. Chapter II Family relations. 1. Relatives. Affiliation relationship. Establishment of mother-child relationship. Establishment of father-child relationship. Assisted procreation. Medical assisted procreation. Effects of the affiliation. Parental responsibility. 2. In-laws. 3. Adoption. Constitution and effects. 4. Marriage. Concept, Matrimonial regimes, features of the marriage as an act and as a status. Chapter III. Marriage. 1. Constitution of the matrimonial relation: marriage as an act. Civil marriage. Requirements. Consent. Capacity. Formalities. Invalid marriage. Putative marriage. 2. Effects of marriage: marriage as a status. 2.1. Personal effects. 2.2. Patrimonial effects. General principles and suppletive regime of the matrimonial goods. 3. Modification of the matrimonial relations. Judicial separation of goods. Judicial separation of persons and goods. 4. Termination of the matrimonial relation. 4.1. Death and presumed death. 4.2. Divorce. Divorce by mutual consent. Process. Nature. Litigious divorce. Causes of litigious divorce. Chapter IV De facto union. Notion of legally relevant de facto union.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS4002/LAWS4003 PATRIMONIAL FAMILY LAW AND SUCCESSION LAW**

Title I. Patrimonial Family Law. Chapter I Introduction. Patrimonial effects of relatives, in-laws and adoption. Chapter II Patrimonial effects of marriage. 1. Regime of the matrimonial goods. Nuptial agreements. Description of the legal regimes of goods. Separation. General community of property. Community of acquired property. Participation in acquired property. Administration of the goods of the couple. Matrimonial illegitimacies. Liability for the debts of the spouse. 2. Termination of the patrimonial relations. Chapter III Alimony. Title II. Succession Law. Chapter I Introduction. Legal notion of succession. Constitutional principles and sources. Succession systems. Features of the succession law and of the succession rights. Chapter II Succession in general. 1. Death as a prerequisite to succession. 2. Several types of succession by death. 3. Heir and legatee. 4. Opening of succession. 5. Succession 'calling', succession 'appointment', content and object of the succession 'calling'. Prerequisites of succession 'calling'. Prevalence of the succession 'appointment'. Existence of the 'called' person. Succession capacity, indignity and disinheritance. Modes of 'calling'. Indirect 'calling'. Right to representation. Direct substitution. Right of accretion. 6. Vacant succession. 7. Succession acquisition. Acceptance and refusal of the inheritance. 8. Request of the inheritance. 9. Transfer of the inheritance. 10. Administration of the inheritance. 11. Charges for the inheritance and its liquidation. 12 Partition of the inheritance. Chapter III Successions in special. 1. Legal succession. 2. Legal mandatory succession. 3. Testate succession. 4. Contractual succession. Partition in life.

Pre-requisite: LAWS4000 and LAWS4001

### **LAWS4004/LAWS4005 COMMERCIAL LAW III**

Title I. Commercial contracts in general. Chapter I. Introduction. Chapter II. General theory of Commercial contracts. 1. Physiognomy of the modern commercial contract: the problem of standard contractual clauses. 2. Special legal regime of commercial obligations. 3. Prescription of commercial obligations. 4. Classification of commercial contracts. Title II. Study of some Commercial contracts in particular. Chapter I. Contract of sale. Chapter II. Contract for sale or return. Chapter III. Supply contract. Chapter IV. Commission contract and forwarding contract. Chapter V. Distribution contracts. 1. Agency contract. 2. Commercial concession contract. 3. Franchising. 4. Brokerage contract. Chapter VI. Advertising contracts. 1. Contract Advertising. 2. Advertising diffusion contract. 3. Advertising creation contract. 4. Advertising sponsorship contract. Chapter VII. Carriage contract. Chapter VIII. Deposit in general warehouses. Chapter IX. Lodging contract. Chapter X. Current account contract. Chapter XI. Securities lending contract (reporte). Chapter XII. Banking contracts. 1. Bank deposit. 2. Rental of safe deposit boxes. 3. Opening credit. 4. Bank advance. 5. Current Bank account. 6. Bank discount. 7.

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Factoring contract. 8. Leasing. Chapter XIII. Guarantee contracts. 1. Commercial pledge. 2. Fiduciary transfer guarantee. 3. Floating charge. 4. Independent guarantee. Chapter XIV. Insurance contract.

Pre-requisite: LAWS3008 and LAWS3009

### **LAWS4006/LAWS4007 PRIVATE INTERNATIONAL LAW**

Title I. 1. Introduction. 2. Method. 3. General principles and regulation values. 4. Function of the conflict rule. 5. Structure of the conflict rule. 6. Classification 7. Renvoi (remission/transmission). 8. Vested rights. 9. General clause of public policy ("ordre public"). 10. The 'fraus legis'. Title II. 1. Personal law. 2. Natural persons. 3. Juridical persons. 4. Law on foreigners. 5. Legal business. 6. Obligations. 7. Real property rights. 8. Family. 9. Succession.

Pre-requisite: LAWS2002 and LAWS2003, LAWS4002 and LAWS4003

### **LAWS4008/LAWS4009 CRIMINAL PROCEDURAL LAW**

I. General Notions. 1. Function and meaning of the criminal law procedure. 2. Criminal law procedure within the legal system. 3. The juristic and constitutional compliance of the criminal procedure and its structure. 4. The application of the criminal procedure law. II. General Principles of Criminal Procedure Law. 1. Principles relating to the initial stage of the procedure. 2. Principles relating to the continuation of the procedure. 3. Principles relating to evidence. 4. Principles relating to the form of the procedure. III. The Agents of the Criminal Procedure. 1. Court. 2. Public prosecutor and criminal police bodies. 3. The defendant and the defendant's lawyer. 4. The victim and injured party. IV. Procedural measures 1. Means to obtain evidence. 2. Safeguard and Police measures. 3. Coercive Measures 4. Measures of patrimonial guarantee. V. Stages of the Criminal Procedure. 1. The forms of criminal procedure and their respective procedure. 2. Appeals.

Pre-requisite: LAWS3012 and LAWS3049

### **LAWS4010 POLITICAL SCIENCE**

Chapter I - Object, method, scope and objectives of political science. Chapter II - Review of politics over centuries. Chapter III - The forms and systems of modern governments. Chapter IV - Systems of some particular governments. Chapter V - Forms and system of Macao government.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS4011/LAWS4050 CIVIL PROCEDURAL LAW II**

Chapter III. Instruction process. 1. The evidence in general. 2. Right evidential material and formal evidentiary law. 3. The burden of proof and rules. 4. Principles that govern the production of evidence in court. 5. Evidence. Chapter IV. Discussion and judgment. 1. The final hearing. 2. The final sentence. 3. Effects of sentence. 3.1. The res judicata and its species. 3.2. Subjective and objective limits of res judicata. 3.3. Other effects of final judgment. Title IV. Formalism of common abstract declarative process. 1. Differences regime regarding how common ordinary. 2. Deadlines. Title V. Process particular concerning small claims. 1. Competence. 2. Specialties of conduct.

Pre-requisite: LAWS2002 and LAWS2003, LAWS3002 and LAWS3047, LAWS3018 and LAWS3050, LAWS4002 and LAWS4003

### **LAWS4013/LAWS4014 CIVIL PROCEDURAL LAW III**

Title I. General theory of executive action. 1. Concept and objectives. 2. Rate cool. Title II. Inadmissibility of executive action. 1. Specific assumptions. 1.1. Assumption formal and substantive requirements. 1.2. The enforceable legal nature and historical evolution. 1.3. Rating enforceable. 1.4. Consequences of lack of enforcement or its unenforceability. 1.5. Sure, liquidity and enforceability of the obligation. 2nd. General inadmissibility of executive action. 2.1. The jurisdiction of the court. 2.2. The formal legitimacy. 2.3. The mandatory legal representation. Title III. Forms of executive process. One. Common process and special processes. 2nd. Legal Regime of different species and forms of execution. Title IV. Process

executive for payment of a certain amount and its phases. Chapter I. Ordinary form. 1. Articulated. 1.1. Initial application. 1.2. Order injunction. 1.3. Quote of the run. 1.4. The attached opposition's run. 2. The attachment. 2.1. Definition and purpose. 2.2. Opposition to attachment. 3. Contest creditors. 3.1. Complaint and checking credits. 3.2. Processing. 4. Payment and its modalities. 5. Right of redemption. 6. Term of the executive process. 7. Renewal of execution extinct. Chapter II. Summary form of the implementation process for the payment of a certain amount. Title V. Implementation process to deliver right thing. 1. Forms common and ordinary common summary. 2. Conduct. Title VI. Implementation process to provide that. 1. The fact that positive and negative. 2. Forms common and ordinary common summary.  
Pre-requisite: LAWS4011 and LAWS4050

#### **LAWS4034/LAWS4035 LEGAL CONSEQUENCES OF CRIME**

Legal consequences of the crime. 1. The legal consequences of the crime and the criminal penalty. 2. The reaction to crime of the criminal law in force in Macao in the context of the criminal policy models. 3. Preliminary penalties, a. Primary penalties and secondary penalties. b. The substitution penalties in the system in force in Macao. 4. The imprisonment penalty and the fine. 5. The general theories on the determination of the penalty. 6. Steps on the determination of the penalty. a. Mitigation circumstances and aggravity circumstances. b. The criterium of the article 84 of the criminal code. c. Judicial determination of the penalty.  
Pre-requisite: LAWS3012 and LAWS3049

#### **LAWS4055 COURT OBSERVATION**

This course offers unique practical insights into the legal system through courtroom observation. Students witness real-life proceedings, understanding courtroom dynamics, legal advocacy, and the application of legal principles. They analyse various court hearings (civil, criminal, and appellate), identify roles, observe legal arguments, evidence examination, and decision-making. Through reflection, analysis, and evaluation, students critically assess legal concepts, argument effectiveness, and courtroom observations.  
Pre-requisite: None

#### **LAWS4056 INTERNSHIP**

The Internship offers practical experience, professional development, and a deeper understanding of the legal profession. Through students engage in legal tasks, research (Legal Research, Case Analysis, Legislative Research, Policy Research, Comparative Law Research, Empirical Research), drafting (Pleadings, Contracts, Legal Opinions, Settlement Agreements), client interviews, and courtroom proceedings. They enhance skills in research, writing, critical thinking, and ethical conduct. With mentorship and reflection, students connect theory with practice, analyze experiences, and identify areas for growth. This course bridges academia and the legal world, empowering students to become competent and ethical legal professionals.  
Pre-requisite: None

#### **LAWS5012 RESEARCH REPORT**

This course provides law students with vital research and analytical skills essential for proficient legal writing. Students will learn to formulate precise research questions, effectively utilize legal databases, and critically evaluate case law and statutes. The course emphasizes the development of a comprehensive research report that highlights coherent argumentation, accurate citation, and strict adherence to academic standards. By the conclusion of the course, students will be well equipped to produce high-quality legal documents suitable for both academic and professional settings.  
Pre-requisite: None

#### **PORT1002 ORAL COMPREHENSION AND PRODUCTION SKILLS I**

This course is designed for practising listening skills to develop appropriate and clear pronunciation. Students will listen and produce short dialogues related to their interests and familiar situations.  
Pre-requisite: None

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**PORT1003 WRITTEN COMPREHENSION AND PRODUCTION SKILLS I**

The main aim of this course is to provide students with a good foundation of Portuguese language so they may use familiar everyday expressions, basic structures, and vocabulary to satisfy specific communication needs in their daily lives.

Pre-requisite: None

**PORT1004 ORAL COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to develop oral skills in Portuguese through dialogues and other role play activities. The students should reach the elementary proficiency level at the end of the course.

Pre-requisite: PORT1002

**PORT1005 WRITTEN COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to provide students with upper elementary Portuguese language written comprehension and production skills so that they will be able to interpret and produce short texts using simple and frequent vocabulary and expressions related to immediate priority areas, as well as to describe their background, surrounding environment, daily routine, present and past actions and matters related to immediate needs.

Pre-requisite: PORT1003

**PORT2006 ORAL COMPREHENSION AND PRODUCTION SKILLS III**

The main objective of this course is the development of oral skills in Portuguese through listening and production tasks from the preceding elementary proficiency level to a lower intermediary level.

Pre-requisite: PORT1004

**PORT2007 WRITTEN COMPREHENSION AND PRODUCTION SKILLS III**

This course serves as an introduction to the reading and composition of various forms of written texts. Students will be expected to utilise verbs in the correct tense and learn the subjunctive mood. Through exercises and activities emphasising contextualized use of structures, students will learn to produce different types of texts suitable for presentation and discussion.

Pre-requisite: PORT1005

**PORT2012 ORAL COMPREHENSION AND PRODUCTION SKILLS IV**

The aim of this course is to further develop oral skills in Portuguese through listening and production tasks from the preceding lower intermediate proficiency level to an intermediary level.

Pre-requisite: PORT2006

**PORT2013 WRITTEN COMPREHENSION AND PRODUCTION SKILLS IV**

This course will focus on a comprehensive review of structures previously taught in the last three semesters, and the introduction and reinforcement of new structures. Students will engage in essay writing on various topics and practice summarisation and abstract writing techniques.

Pre-requisite: PORT2007

**PORT3019 ADVANCED COMPREHENSION AND PRODUCTION SKILLS I**

The course is designed to develop comprehension of real-life audio and video texts in different varieties of Portuguese, focusing on areas of current affairs, diplomacy, legal language, and business. Students will interact about the content of audio and video texts.

Pre-requisite: PORT2012

**PORT3020 ADVANCED COMPREHENSION AND PRODUCTION SKILLS II**

The course is designed to develop further the aims of Advanced Oral Comprehension and Production Skill I. Use of real-life audio and video texts in different varieties of Portuguese, focusing on areas of current affairs, diplomacy, legal language, and business. Students will transcribe, comment on audio and video documents, and produce texts through simulation

activities and task performance.  
Pre-requisite: PORT3019

## **BACHELOR OF LAW (CHINESE) – EVENING**

### **LAWS1000/LAWS1001 INTRODUCTION TO LAW**

Title I. The concept of Law. Chapter I. The Law as part of the whole social order. 1. The Law and other normative orders. 2. The religion. 3. The ethic. 4. The social behavior. Title II. The aims or values of the Law. Chapter I. Justice and security. Title III. The structure of the Law. Chapter I. The rule of Law. Title IV. Sources of Law. Chapter I. voluntary sources of Law and non-voluntary sources of Law. Title V. Interpretation of the Law. Chapter I. Types of interpretation. 1. Elements of interpretation. 2. Results of the interpretation. Chapter II. Integration of the gaps in the Law. 1. Analogy. 2. Creation of a ad hoc rule.

Pre-requisite: None

### **LAWS1002 LEGAL HISTORY**

Title I. Chapter I. Legal thoughts in traditional Chinese society. 1. Divine Law 2. Patriarchal law 3. Confucianism. 4. Legalism. Chapter II. Legal and political thoughts in Modern China. Chapter III. 1. Legal History of Macao. 1.1 Introduction. 1.2 Specificity and sources of law of overseas Portuguese territories. 1.3 Law and justice. 1.3.1. Portuguese law and local laws, scope of application. 1.3.2 Indigenous law and the mixed relations. 1.3.3 Legal pluralism and mixed jurisdiction in Macao. 1.3.4. Judicial organization of Macao. Title II. Chapter I. Introduction. 1. Social history of law. Chapter II. The formation of the Common Law. 1. The Roman Law. Sources: (Corpus Iuris Civilis). General Characteristics of the Praetor's Law. The evolution of Roman law until the imperial constitutions. vulgarrecht. 2. Legal pluralism. The role of legal thought in the formation and evolution of the common law. The glossators, commentators, mos gallicus iura docendi, usus modernus pandectarum and naturalists. Chapter III. Philosophy of Law. 1. Legal positivism, legal, historical, sociological and conceptual. 2. Pure theory of law and the right alternative use.

Pre-requisite: None

### **LAWS1003/LAWS1004 CONSTITUTIONAL LAW**

Title I. General notions of Constitutionalism. Chapter I. Constitution as legal statute of politics. 1. The autonomy of public sphere. 2. State as a political form of modernity. 3. The crisis of State: regionalism and globalization. Chapter II. From Constitutionality to Inter-constitutionality. 1. The hierarchical and normative scheme of the constitution of the supervising state. 2. The binding inter-constitutionality of the supervised State. 3. Democracy and rule of law. Chapter III. Comparative Constitutional Law. 1. The Portuguese constitutional experience. 2. The Chinese constitutional experience. 3. The evolution of Macao autonomic status.

Pre-requisite: None

### **LAWS1005/LAWS1006 MACAO BASIC LAW**

Title I. The Basic Law of the Macao SAR. Chapter I. Characterizing the Macao SAR. 1. Macao SAR as a political region. 2. Scope of autonomy of Macao SAR. 3. Macao SAR's political system. Chapter II. Purposes of Basic Law. 1. Theories on the purposes of Basic Law. 2. Art. 31 of the CPRC and its double task. 3. Luso-Chinese joint-declaration. Chapter III. Legal nature of the Basic Law. 1. Ideas on the legal nature of the Basic Law. 2. Basic Law as an ordinary legal norm. 3. Basic Law as statutory legal norm. 4. Basic Law as a reinforced legal norm. 5. Basic Law as a material constitutional legal norm. Chapter IV. Guaranty of the Basic Law. 1. Interpretation of the Basic law. 2. Guaranty of the reinforced value of the Basic Law. 3. Limits to revision of the Basic Law.

Pre-requisite: LAWS1003 and LAWS1004

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## **LAWS1007/LAWS1008 PUBLIC INTERNATIONAL LAW**

1. Concept and nature of Public International Law. 2. Relationship between International and Domestic Law. 3. Sources of Public International Law: treaties and customary norms. 4. International Legal Personality. 5. The State: elements of the State, the recognition of State, succession of states, rights and duties of the State. 6. International Organizations: definition and types. The United Nations. 7. Diplomatic and Consular relations Law. 8. The pacific resolution of the international conflicts. 9. Individuals in Public International Law. 10. Application of Public International Law to Macao.

Pre-requisite: None

## **LAWS1015 ENHANCEMENT LEARNING ACTIVITIES**

Apart from regular legal courses, students are encouraged to participate in other activities, such as attending seminars, participating in competitions, sharing and discussing legal problems with one another.

Pre-requisite: None

## **LAWS1016 PUBLIC ECONOMICS**

The meaning of Public Economy - Financial Activity of State: Expenses, Revenues and Budget. Economic Activity of State: Characterization of Public Economic activity and the Enterprise activity of State - Public Revenues - Public Expenses - Public Budget - Financial Policy problems.

Pre-requisite: LAWS2006 and LAWS2007

## **LAWS1017 TAX LAW**

Introduction.I. Tax Law. Historical background. Theory of taxation. Taxes and other contributions. Administrative taxation procedure. Classification of taxes. Definition of Taxes. Tax law and other fields of law. Constitutional Law. Administrative Law. Commercial law. Private Law. Criminal Law. International Law.II. Tax Jurisdiction. Sources of tax law. General principles of law. International and interregional tax law agreements. Customary law. Jurisprudence. Doctrine. Interpretation of tax laws. Integration of tax laws. Application of tax laws in time and space. Double taxation. Tax avoidance and tax evasion. International exchange of tax information.III. Legal relation. Nature. Parties. Tax obligation. Tax duties and warranties. Execution procedure.IV. Taxation in Macao. Evolution. Taxation on income. Taxation of property. Taxation of services. Stamp duty. Special Gaming Tax. Other taxes.

Pre-requisite: LAWS2006 and LAWS2007

## **LAWS1020 REGISTRY AND NOTARY LAW**

I. Concept: 1. the structure and function of registry and notary agencies of Macao SAR. 2. The similar organs and functional difference. 3. The common perspectives of public administration with private interest: Prevention of conflict as an indispensable contribution in administration of justice.II. The statute law of registry and notary: 1. Organic law. 2. Law codes. 3. Separate legislation.III. Law of civil registry. 1. Concept and scope. 2. Theory and practice. 3. Principle of information. IV. Law of Registry of House. 1. Concept and scope. 2. Theory and practice. 3. Principle of information. 4. Commercial registry and registry of automobiles, ships and airplanes. V. Notary Law. 1. Concept and scope. 2. Theory and practice. 3. Principle of information.

Pre-requisite: LAWS3002 and LAWS3047, LAWS3014 and LAWS3015

## **LAWS1021 FORENSIC MEDICINE**

Forensic Medicine (concept, organization). Corporal offenses. Forensic sexology. Medical reports and certificates. Sudden natural death. Identification. Violent death. Injury and death from physical agents. Wounding. Asphyxia. Immersion and drowning. Sexual offenses. Abortion and Pregnancy. Infant deaths. Poisoning and drugs. Alcohol abuse. Forensic Psychiatry. Labor Forensic Medicine. Medical ethic, responsibility and negligence. Transplantation of organs and tissues practice of observations (autopsy, medico-legal examinations).

Pre-requisite: None



### **LAWS1023 JURIDICAL PRACTICE**

Part I. 1. Administration of justice: Generality. 2. Organs exercising jurisdictional function. 3. Classification of courts. 4. Hierarchy of courts. 5. Principle regulating administration of justice. 6. The relevant statute laws. 6.1. The Basic Law of Macao SAR. 6.2. The Basic Law of Judicial Organization. 6.3. Civil Procedural Code. Part II. - Litigation Practice. 1. The judicial protection in Macao SAR. 2. Legal profession. 3. Judicial mandate. 4. The organs and entities with specific function of this area. 5. The relevant statute laws. 5.1. The Basic Law of Macao SAR. 5.2. The Basic Law of Judicial Organization. 5.3. The statute of lawyers and the relevant moral and disciplinary regulations.

Pre-requisite: LAWS3018 and LAWS3050

### **LAWS1024 GENERAL THEORY OF CHINESE LAW**

Part I. - 1. The characteristics of legal system of ancient China. 2. People's Republic of China (PRC) Constitution Political and Economical fundamental principles settled by the Constitution, The State Organs of PRC, Rights and Duties of Chinese citizens. 3. PRC Criminal Law: range of application of criminal law, Conception and constitution of crime, Penalties, Measure of Penalties, the Special Provisions of Criminal Law. 4. Criminal Procedure in PRC: jurisdiction, evidences, mandatory injunctions. The Accusation, 1st and 2nd stages procedures, Execution. 5. PRC Administrative: Administrative institutions, administrative act, the Law of civil servants. Hierarchy Claims and Administrative Procedure. Part II.- 1. Civil Law of PRC: general principles of Civil Law, the parties of the civil juridical relationship, civil juridical acts, the right of property, contracts, civil liability. 2. The marriage and successions law: marriage regimens, divorce regimens and procedures, blood relations and affinity, inheritance, legal succession, testate succession. 3. Company Law general regimen and types of companies, limited companies, partnership associations and business corporations. 4. PRC Foreign Economy Law: Joint venture enterprises, foreign enterprises, the law of joint administration of companies, PRC use of land law, Tax law related to foreign companies.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS1026 PORTUGUESE LEGAL LANGUAGE**

Legal language: Basic legal concepts. Legal logic. Judicial syllogism. Critique of legal language. Analysis of court decision. Fundamental legal documents legal procedure. Legal translations. Legislations. Legislative process and formalities.

Pre-requisite: LAWS3012 and LAWS3049, LAWS3014 and LAWS3015, LAWS3016 and LAWS3017, LAWS3018 and LAWS3050

### **LAWS1027 INTRODUCTION TO ALTERNATIVE DISPUTE RESOLUTION**

This course will provide in-depth introduction to the alternative dispute resolution, including arbitration and mediation, and its linkage and connection with court adjudication. It will cover the law and practice of ADR in both civil law and common law jurisdictions, with a focus on its application in Macao.

Pre-requisite: LAWS2000 and LAWS2001

### **LAWS2000/LAWS2001 GENERAL THEORY OF CIVIL LAW I**

Title I. Introduction. 1. General concepts of civil law. 2. Preliminaries. Title II. General theory of the civil juridical order. Chapter I. Sources of civil law. Chapter II. Fundamental principles of civil law. Title III – General theory of the civil juridical relationship. Chapter I. General theory of the individuals of the juridical relationship. 1. General concepts. 2. Natural persons. 3. Legal persons. Chapter II. General theory of the object of the juridical relationship. 1. General concepts. 2. Things and patrimony.

Pre-requisite: LAWS1000 and LAWS1001

### **LAWS2002/LAWS2003 GENERAL THEORY OF CIVIL LAW II**

Title I. General theory of the civil juridical relationship (cont.). Chapter I. General theory of the juridical fact. 1. About juridical facts in general: concepts and classifications; acquisition,

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modification and extinction of juridical relationships; juridical transaction and simple juridical act. 2. Transactional declaration: general concepts; interpretation and integration of juridical transactions; divergence between the intention and the declaration; defects of the intention; representation in juridical transactions. 3. Transactional object. 4. Accidental elements of juridical transactions. 5. Ineffectiveness and invalidity of juridical transactions: general concepts; invalidities; reduction and conversion of juridical transactions.

Pre-requisite: LAWS1005 and LAWS1006, LAWS2000 and LAWS2001

### **LAWS2004/LAWS2005 ADMINISTRATIVE LAW I**

I. Public administration 1. Public Administration. Concept and different meanings. 2. Historical evolution. 3. Public Administration and the other State functions 4. Administrative systems: comparison between the continental-European system and the British system. II. Administrative organization 1. The structure of the public administration 2. Types of inter-organic relations: hierarchy, superintendence and supervision; delegation of powers 3. The Administrative organization of the Macao SAR. III. The administration and the Law 1. Public Administration and private law 2. Public administration and administrative law: the principle of legality of Administration. 3. Activity bound by the law and discretionary activity: the administrative discretionary activity. 4. Sources of administrative law: in special, the administrative Regulations.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS2006/LAWS2007 ADMINISTRATIVE LAW II**

I. The Administrative Activity. 1. General notions: legal facts in administrative law; in special the administrative illicit 2. Administrative activity. II. The regulatory power. 1. Notion, function and grounds for the administrative regulations 2. The administrative regulations and the law: admissibility of the independent regulations. 3. The regulatory procedure. III. Administrative act 1. Notion and meaning 2. Typology 3. Instrumental acts. 4. The administrative procedure. 5. Effectiveness and legal strength of the administrative act: the possibility of execution by Administration of its own acts. 6. The structure of the administrative act: the subject, the object and the declaration. 7. The defects of the administrative act. Types of invalidity. IV. The administrative contract 1. General notions: the public administration, consensus and authority. 2. Legal regime: formation, content and principles relating to the 'life' of the administrative contracts. Invalidity of administrative contracts.

Pre-requisite: LAWS2004 and LAWS2005

### **LAWS2012 ECONOMICS**

1. Offer and demand. 2. Consumers and Producers decisions. 3. The structure of the Market. 4. The National Income Accounting and the determination of the national income theory. 5. Financial and Monetary Policies. 6. Inflation and Unemployment. 7. Economic System and Development of Regional Economy.

Pre-requisite: LAWS1000 and LAWS1001

### **LAWS3000/LAWS3046 OBLIGATION LAW I**

Chapter I. Introduction. 2. Obligation law and the importance of its study. 2. Reference to Comparative Law. 3. Guiding principles of Civil Law and Obligation Law. 4. General notions. Obligation *stricto sensu*. Performance of the obligation. The problem of non-autonomous obligations. Complex 'obligational' relation. Function of the obligation and the interests of the creditor. 5. Credit rights and property rights. The external effect of obligations. 6. Guiding Principles of Obligation Law. Principle of individual autonomy and contractual freedom. Principle of good faith. Principle of the unjust enrichment. Chapter II. Sources of obligations. 1. Contracts. Contractual relations. 2.1. Promissory contract. 2.2. Preference pact. 2.3. Exception of non-performance. Termination of the contract. 3. Unilateral transactions. 4. Management of alien affairs. 5. Unjust enrichment. 6. Civil Liability. 6.1. Contractual and non contractual liability. 6.2. Liability for unlawful actions. Requirements and regime of the obligation on compensation. The function of civil liability. 6.3. Objective Liability. Liability of the committer. Liability of public legal persons by acts of private management. Liability for damages caused by animals. Liability

for damages caused by terrestrial circulation vehicles. Liability for damages caused by electrical energy or gas installations. 6.4. Liability for legal actions. 6.5. Mandatory civil liability insurance. 6.6. Mandatory automobile civil liability insurance. 6.7. Limitations to the liability and the right to compensation.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3002/LAWS3047 OBLIGATION LAW II**

Chapter I. Modalities of obligations. 1. Obligations in relation to their binding: the natural and civil obligations. 2. Obligations in relation to the individuals: conjoint and jointly liable obligations. 3. Obligations in relation to the object. Pecuniary, interest and compensation obligations. Chapter II Transfer of obligations. 1. Transfer of credit. Sub-rogation. 2. Individual transfer of debts. 3. Cession of the contractual position. Chapter III General security of obligations. 1. Scope. 2. Protection of patrimonial guarantees. Void contracts. Sub-rogation of the creditor to the debtor. Actio pauliana. Seizure of assets. Chapter IV. Special security of obligations. 1. Personal and real securities. 2. Bail. 3. Real securities. 4. Bond. Chapter V. Performance and non performance of obligations. 1. Performance. Performance and principle of good faith. Timeliness of obligations. Who can perform and to whom can the obligation be performed. Place and deadline of the performance. Allocation and evidence of performance. 2. Non performance. Impossibility and delay not imputable to the debtor. Impossibility and delay imputable to the debtor. 3. Defective performance. 4. Contractual regulation of the rights of the creditor. Penalty clause. 5. Forced execution of the credit. Action to enforce the performance, specific performance, performance by equivalent. 6. Cession of assets to the creditors. 7. Delay of the creditor. Chapter VI. Causes of extinction of obligations besides the performance. Chapter VII. Special contracts. 1. Contracts regulated and not regulated in the law. 2. Mixed contracts and contracts related. 3. Contracts regulated in the Civil Code. 4. Gaming and betting. General and special features of gaming and betting.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046

### **LAWS3004/LAWS3005 LABOUR LAW**

Title I. Labour Law: concept, object and importance. Chapter I. Historical evolution of Labour Law. Chapter II. Sources of Labour Law. Title II. The labour contract. Chapter I. Concept, elements and legal characteristics of the labour contract. Title III. The formation of the labour contract. Chapter I. Parts of the labour contract. 1. Employee. 2. Employer. 3. Rights and duties. Chapter II. Types of employment contracts. 1. Indefinite duration period. 2. Fixed term and non-fixed term. Chapter III. Probationary period. Chapter IV. Employment of minors. Title IV. Working time. Chapter I. Normal working hours. 1. Exemption for the working time schedule. 2. Overtime work. 3. Night work. 4. Shift work. Chapter II. Periods of rest. 1. Weekly rest. 2. Holidays. 3. Annual leave. 4. Absences. 5. Maternity leave. Title V. Salary. Chapter I. Types of salary. 1. Basic remuneration. 2. Variable remuneration. 3. Calculation of the retribution. 4. Compensation and deductions on salary. Title VI. Termination of the labour relation. Chapter I. Forms of termination. 1. Revocation. 2. Resolution. 3. Rescission. 4. Expiry. Title VII. Labour relations with non-residents workers. Title VIII. Social Security.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3006/LAWS3007 COMMERCIAL LAW I**

Title I. The exercise of commercial entrepreneurs in general. Chapter I. 1. Introduction to Commercial Law. 2. The commercial law as the law 'around' the business. Chapter II. Commercial enterprise and Commercial entrepreneurs. 1. Commercial entrepreneurs and acts of commerce. Chapter III. Commercial entrepreneurs. 1. Commercial capacity, Impediments and incompatibilities. 2. Legitimacy. 3. Obligations of commercial entrepreneurs. 3.1. Firm. 3.2. Commercial bookkeeping. 3.3. Commercial register. 3.4. Render accounts. Chapter IV. Representation in the performance of an enterprise. 1. Managers. 2. Assistants of an entrepreneur. Chapter V. Liability for the exercise of an commercial enterprise. 1. Liability for debts contracted in the exercise of an enterprise. 2. Liability for defective products. Chapter VI. A commercial enterprise as an object of business. 1. The right over the enterprise and the rights on the assets of the enterprise. 2. The commercial enterprise as object of contracts. 2.1. The

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transfer of the commercial enterprise. 2.2. Lease of commercial enterprise. 3. Usufruct of commercial enterprise. 4. Pledge of commercial enterprise. Chapter VII. Trade distinctive signs. 1. Firm (remission). 2. Name and emblem. 3. Trademark. Chapter VIII. Competition legal discipline. 1. Competition in general. 2. Unfair competition. Title II. Negotiable instruments. Chapter I. Negotiable instrument in general. Chapter II. Bill of exchange. 1. Typical notes of the obligation incorporated in a negotiable instrument. 2. Requisites of the bill of exchange. 2.1. Essential requisites. 2.2. Non essential requisites. 3. Legal institutes of the Bill of Exchange. 3.1. Drawing. 3.2. Endorsement. 3.3. Acceptance. 3.4. 'Aval'. 3.5. Types of maturity. 3.6. Recourse.

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3008/LAWS3009 COMMERCIAL LAW II**

Title I. Commercial companies in general. Chapter I. Notion of commercial company and related figures. Chapter II. Brief historical reference. Chapter III. Types of commercial companies. Title II. Constitution and functioning of commercial companies. Chapter I. Constitution of commercial companies. Chapter II. Legal personality and capacity of commercial companies. Chapter III. On the shares. Chapter IV. Capital and legal capital, profits and losses. Chapter V. Company organs. 1. Administration. 2. General Meeting. 2.1. Company resolutions. 2.2. Ineffectiveness of company resolutions. 2.2.1. Resolutions ineffective. 2.2.2. Void resolutions. 2.2.3. Voidable resolutions. 2.2.4. Nonexistent resolutions. 3. Supervisory Board and single supervisor. 4. The company secretary. 5. The liability of members of company organs. Title III. Amendment of the articles of association. Chapter I. Amendments to the articles of association. 1. Generalities. 2. Increase or reduction of the company capital. 3. Modification of the company object. Chapter II. Mergers and divisions of companies. Chapter III. Transformation of companies. Title IV. Extinction of commercial companies. Chapter I. Winding up of commercial companies. Chapter II. Liquidation of commercial companies.

Pre-requisite: LAWS3006 and LAWS3007

### **LAWS3010/LAWS3048 CRIMINAL LAW I**

刑法學課程目標的是讓學生在本科學階段了解和掌握大陸法系刑法理論的基礎知識 (The goal of the Criminal Law course is to enable students to understand and master the basic knowledge of Criminal Law theory at the undergraduate stage).

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3012/LAWS3049 CRIMINAL LAW II**

刑法學課程目標的是讓學生在本科學階段了解和掌握大陸法系刑法理論的基礎知識 (The goal of the Criminal Law course is to enable students to understand and master the basic knowledge of Criminal Law theory at the undergraduate stage).

Pre-requisite: LAWS3010 and LAWS3048

### **LAWS3014/LAWS3015 PROPERTY LAW**

Introduction (evolution of the systems of real property rights). I. Notion of real property right. II. Characteristics of the real property rights. III. The real property rights. Community property. Joint ownership. Horizontal ownership. IV. Limited real property rights. The usufruct. The use and habitation rights. Timesharing right. Superficial right. Emphyteusis constituted before the new Civil Code of Macao. Real property rights resulting from concession of government land in Macao: granted dominium utile; ownership of buildings on leased land. Abstract on real property rights for acquisition and for real security. V. Possession. Definition. Possession and mere detention. Rights that can be possessed. Things that can be possessed. Capacity for possess. Characteristics of possession. Acquisition of possession. The protection of the possession: Rights resulting from the possession; Legal actions to defend the possession. Usucapio (the adverse possession).

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3016/LAWS3017 ADMINISTRATIVE LAW III**

I. Introduction. 1. Administrative justice. 2. Separation of powers. 3. Main historical models of

administrative justice. 4. Subjective and objective models. II. Evolution of the judicial review in Macao. 1. Jurisdictional competence within the judicial review in Macao. The administrative Court. Appeal Courts. Judicial organization in Macao. III. Mechanisms of Judicial review. 1. Judicial review. 1.1 Concept and nature. 1.2 General principles. 1.3 Administrative acts that can be judicially reviewed. 1.4 Procedural requirements 1.5 Standing of the parties 1.6 Proceeding. 2. Special judicial remedies 2.1 Judicial review of norms 2.2 Electoral litigation 2.3 Administrative infractions 3. Administrative Actions 3.1 Judicial action on administrative contracts 3.2 Judicial action on torts liability 3.3 Injunction. Judicial action to compel the practice of an administrative act 3.4 Judicial action for the protection of rights and lawful interests. 4. Interim Measures. 4.1 Suspension of the effects of an administrative decision. 4.2 Provisory injunction. 4.3 Production of endangered evidence. 4.4 Other interim measures. IV. Judicial Decisions 1. Legal effects of the judicial decisions V. Judicial appeals 1. Right to appeal 2. Legal regime. VI. Execution of judicial decisions. 1. Execution for the delivery of an asset or performance in kind. 2. Execution for payment of an amount 3. Guarantees against illegitimate non execution. VII. Arbitration 1. Ambit. 2. Appeal of arbitration. 3. Arbitration centers. Pre-requisite: LAWS2006 and LAWS2007

### **LAWS3018/LAWS3050 CIVIL PROCEDURAL LAW I**

I. Introduction. Procedure and Procedural Law. Jurisdiction and jurisdictional function. General frame of the action in civil jurisdiction. II. The action. The right to a legal action. Legal classification of the actions: according to their goal, according to their form. Interlocutory injunctions. III. Civil Procedure Law. Concept. Features. Importance. Interpretation and integration of its norms. Application in time. Application in space. IV. Sources of the Portuguese Civil Procedure Law and close Disciplines. Historical evolution. Special mention of Macao. V. Theory of the Procedural Relationship. The instance as a procedural relationship. The structure of procedural relationship. The parties. Procedural requisites concerning the parties. Judiciary personality. Judiciary capacity. Legitimization. Compulsive representation by an attorney at law. The procedural interest. The court. The judicial organization. Jurisdiction and competence. The object of the procedural relation. The claim and the cause of action. VI. The process forms. Common process and special processes. Ordinary and summary common process. Special process of small claims.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046

### **LAWS4000/LAWS4001 FAMILY LAW**

Chapter I. Introduction. 1. Legal notion of family. 2. Constitutional principles. 3. Sources of Family Law. 4. Features of family law and of family rights. Chapter II Family relations. 1. Relatives. Affiliation relationship. Establishment of mother-child relationship. Establishment of father-child relationship. Assisted procreation. Medical assisted procreation. Effects of the affiliation. Parental responsibility. 2. In-laws. 3. Adoption. Constitution and effects. 4. Marriage. Concept, Matrimonial regimes, features of the marriage as an act and as a status. Chapter III. Marriage. 1. Constitution of the matrimonial relation: marriage as an act. Civil marriage. Requirements. Consent. Capacity. Formalities. Invalid marriage. Putative marriage. 2. Effects of marriage: marriage as a status. 2.1. Personal effects. 2.2. Patrimonial effects. General principles and suppletive regime of the matrimonial goods. 3. Modification of the matrimonial relations. Judicial separation of goods. Judicial separation of persons and goods. 4. Termination of the matrimonial relation. 4.1. Death and presumed death. 4.2. Divorce. Divorce by mutual consent. Process. Nature. Litigious divorce. Causes of litigious divorce. Chapter IV De facto union. Notion of legally relevant de facto union.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS4002/LAWS4003 PATRIMONIAL FAMILY LAW AND SUCCESSION LAW**

Title I. Patrimonial Family Law. Chapter I Introduction. Patrimonial effects of relatives, in-laws and adoption. Chapter II Patrimonial effects of marriage. 1. Regime of the matrimonial goods. Nuptial agreements. Description of the legal regimes of goods. Separation. General community of property. Community of acquired property. Participation in acquired property. Administration of the goods of the couple. Matrimonial illegitimacies. Liability for the debts of the spouse. 2.

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Termination of the patrimonial relations. Chapter III Alimony. Title II. Succession Law. Chapter I Introduction. Legal notion of succession. Constitutional principles and sources. Succession systems. Features of the succession law and of the succession rights. Chapter II Succession in general. 1. Death as a prerequisite to succession. 2. Several types of succession by death. 3. Heir and legatee. 4. Opening of succession. 5. Succession 'calling', succession 'appointment', content and object of the succession 'calling'. Prerequisites of succession 'calling'. Prevalence of the succession 'appointment'. Existence of the 'called' person. Succession capacity, indignity and disinheritance. Modes of 'calling'. Indirect 'calling'. Right to representation. Direct substitution. Right of accretion. 6. Vacant succession. 7. Succession acquisition. Acceptance and refusal of the inheritance. 8. Request of the inheritance. 9. Transfer of the inheritance. 10. Administration of the inheritance. 11. Charges for the inheritance and its liquidation. 12 Partition of the inheritance. Chapter III Successions in special. 1. Legal succession. 2. Legal mandatory succession. 3. Testate succession. 4. Contractual succession. Partition in life.  
Pre-requisite: LAWS4000 and LAWS4001

### **LAWS4004/LAWS4005 COMMERCIAL LAW III**

Title I. Commercial contracts in general. Chapter I. Introduction. Chapter II. General theory of Commercial contracts. 1. Physiognomy of the modern commercial contract: the problem of standard contractual clauses. 2. Special legal regime of commercial obligations. 3. Prescription of commercial obligations. 4. Classification of commercial contracts. Title II. Study of some Commercial contracts in particular. Chapter I. Contract of sale. Chapter II. Contract for sale or return. Chapter III. Supply contract. Chapter IV. Commission contract and forwarding contract. Chapter V. Distribution contracts. 1. Agency contract. 2. Commercial concession contract. 3. Franchising. 4. Brokerage contract. Chapter VI. Advertising contracts. 1. Contract Advertising. 2. Advertising diffusion contract. 3. Advertising creation contract. 4. Advertising sponsorship contract. Chapter VII. Carriage contract. Chapter VIII. Deposit in general warehouses. Chapter IX. Lodging contract. Chapter X. Current account contract. Chapter XI. Securities lending contract (reporte). Chapter XII. Banking contracts. 1. Bank deposit. 2. Rental of safe deposit boxes 3. Opening credit. 4. Bank advance. 5. Current Bank account. 6. Bank discount. 7. Factoring contract. 8. Leasing. Chapter XIII. Guarantee contracts. 1. Commercial pledge. 2. Fiduciary transfer guarantee. 3. Floating charge. 4. Independent guarantee. Chapter XIV. Insurance contract.  
Pre-requisite: LAWS3008 and LAWS3009

### **LAWS4006/LAWS4007 PRIVATE INTERNATIONAL LAW**

Title I. 1. Introduction. 2. Method. 3. General principles and regulation values. 4. Function of the conflict rule. 5. Structure of the conflict rule. 6. Classification 7. Renvoi (remission/transmission). 8. Vested rights. 9. General clause of public policy ("ordre public"). 10. The 'fraus legis'. Title II. 1. Personal law. 2. Natural persons. 3. Juridical persons. 4. Law on foreigners. 5. Legal business. 6. Obligations. 7. Real property rights. 8. Family. 9. Succession.  
Pre-requisite: LAWS2002 and LAWS2003, LAWS4002 and LAWS4003

### **LAWS4008/LAWS4009 CRIMINAL PROCEDURAL LAW**

I. General Notions. 1. Function and meaning of the criminal law procedure. 2. Criminal law procedure within the legal system. 3. The juristic and constitutional compliance of the criminal procedure and its structure. 4. The application of the criminal procedure law. II. General Principles of Criminal Procedure Law. 1. Principles relating to the initial stage of the procedure. 2. Principles relating to the continuation of the procedure. 3. Principles relating to evidence. 4. Principles relating to the form of the procedure. III. The Agents of the Criminal Procedure. 1. Court. 2. Public prosecutor and criminal police bodies. 3. The defendant and the defendant's lawyer. 4. The victim and injured party. IV. Procedural measures 1. Means to obtain evidence. 2. Safeguard and Police measures. 3. Coercive Measures 4. Measures of patrimonial guarantee. V. Stages of the Criminal Procedure. 1. The forms of criminal procedure and their respective procedure. 2. Appeals.  
Pre-requisite: LAWS3012 and LAWS3049

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## **LAWS4010 POLITICAL SCIENCE**

Chapter I - Object, method, scope and objectives of political science. Chapter II - Review of politics over centuries. Chapter III - The forms and systems of modern governments. Chapter IV - Systems of some particular governments. Chapter V - Forms and system of Macao government.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

## **LAWS4011/LAWS4050 CIVIL PROCEDURAL LAW II**

Chapter III. Instruction process. 1. The evidence in general. 2. Right evidential material and formal evidentiary law. 3. The burden of proof and rules. 4. Principles that govern the production of evidence in court. 5. Evidence. Chapter IV. Discussion and judgment. 1. The final hearing. 2. The final sentence. 3. Effects of sentence. 3.1. The *res judicata* and its species. 3.2. Subjective and objective limits of *res judicata*. 3.3. Other effects of final judgment. Title IV. Formalism of common abstract declarative process. 1. Differences regime regarding how common ordinary. 2. Deadlines. Title V. Process particular concerning small claims. 1. Competence. 2. Specialties of conduct.

Pre-requisite: LAWS2002 and LAWS2003, LAWS3002 and LAWS3047, LAWS3018 and LAWS3050

## **LAWS4013/LAWS4014 CIVIL PROCEDURAL LAW III**

Title I. General theory of executive action. 1. Concept and objectives. 2. Rate cool. Title II. Inadmissibility of executive action. 1. Specific assumptions. 1.1. Assumption formal and substantive requirements. 1.2. The enforceable legal nature and historical evolution. 1.3. Rating enforceable. 1.4. Consequences of lack of enforcement or its unenforceability. 1.5. Sure, liquidity and enforceability of the obligation. 2nd. General inadmissibility of executive action. 2.1. The jurisdiction of the court. 2.2. The formal legitimacy. 2.3. The mandatory legal representation. Title III. Forms of executive process. One. Common process and special processes. 2nd. Legal Regime of different species and forms of execution. Title IV. Process executive for payment of a certain amount and its phases. Chapter I. Ordinary form. 1. Articulated. 1.1. Initial application. 1.2. Order injunction. 1.3. Quote of the run. 1.4. The attached opposition's run. 2. The attachment. 2.1. Definition and purpose. 2.2. Opposition to attachment. 3. Contest creditors. 3.1. Complaint and checking credits. 3.2. Processing. 4. Payment and its modalities. 5. Right of redemption. 6. Term of the executive process. 7. Renewal of execution extinct. Chapter II. Summary form of the implementation process for the payment of a certain amount. Title V. Implementation process to deliver right thing. 1. Forms common and ordinary common summary. 2. Conduct. Title VI. Implementation process to provide that. 1. The fact that positive and negative. 2. Forms common and ordinary common summary.

Pre-requisite: LAWS4011 and LAWS4050

## **LAWS4034/LAWS4035 LEGAL CONSEQUENCES OF CRIME**

Legal consequences of the crime. 1. The legal consequences of the crime and the criminal penalty. 2. The reaction to crime of the criminal law in force in Macao in the context of the criminal policy models. 3. Preliminary penalties, a. Primary penalties and secondary penalties. b. The substitution penalties in the system in force in Macao. 4. The imprisonment penalty and the fine. 5. The general theories on the determination of the penalty. 6. Steps on the determination of the penalty. a. Mitigation circumstances and aggravity circumstances. b. The criterium of the article 84 of the criminal code. c. Judicial determination of the penalty.

Pre-requisite: LAWS3012 and LAWS3049

## **LAWS4055 COURT OBSERVATION**

This course offers unique practical insights into the legal system through courtroom observation. Students witness real-life proceedings, understanding courtroom dynamics, legal advocacy, and the application of legal principles. They analyse various court hearings (civil, criminal, and appellate), identify roles, observe legal arguments, evidence examination, and decision-making. Through reflection, analysis, and evaluation, students critically assess legal concepts, argument effectiveness, and courtroom observations.

Pre-requisite: None

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## **LAWS4056 INTERNSHIP**

The Internship offers practical experience, professional development, and a deeper understanding of the legal profession. Through students engage in legal tasks, research (Legal Research, Case Analysis, Legislative Research, Policy Research, Comparative Law Research, Empirical Research), drafting (Pleadings, Contracts, Legal Opinions, Settlement Agreements), client interviews, and courtroom proceedings. They enhance skills in research, writing, critical thinking, and ethical conduct. With mentorship and reflection, students connect theory with practice, analyze experiences, and identify areas for growth. This course bridges academia and the legal world, empowering students to become competent and ethical legal professionals. Pre-requisite: None

## **LAWS5012 RESEARCH REPORT**

This course provides law students with vital research and analytical skills essential for proficient legal writing. Students will learn to formulate precise research questions, effectively utilize legal databases, and critically evaluate case law and statutes. The course emphasizes the development of a comprehensive research report that highlights coherent argumentation, accurate citation, and strict adherence to academic standards. By the conclusion of the course, students will be well equipped to produce high-quality legal documents suitable for both academic and professional settings.

Pre-requisite: None

## **PORT1002 ORAL COMPREHENSION AND PRODUCTION SKILLS I**

This course is designed for practising listening skills to develop appropriate and clear pronunciation. Students will listen and produce short dialogues related to their interests and familiar situations.

Pre-requisite: None

## **PORT1003 WRITTEN COMPREHENSION AND PRODUCTION SKILLS I**

The main aim of this course is to provide students with a good foundation of Portuguese language so they may use familiar everyday expressions, basic structures, and vocabulary to satisfy specific communication needs in their daily lives.

Pre-requisite: None

## **PORT1004 ORAL COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to develop oral skills in Portuguese through dialogues and other role play activities. The students should reach the elementary proficiency level at the end of the course.

Pre-requisite: PORT1002

## **PORT1005 WRITTEN COMPREHENSION AND PRODUCTION SKILLS II**

This course aims to provide students with upper elementary Portuguese language written comprehension and production skills so that they will be able to interpret and produce short texts using simple and frequent vocabulary and expressions related to immediate priority areas, as well as to describe their background, surrounding environment, daily routine, present and past actions and matters related to immediate needs.

Pre-requisite: PORT1003

## **PORT2006 ORAL COMPREHENSION AND PRODUCTION SKILLS III**

The main objective of this course is the development of oral skills in Portuguese through listening and production tasks from the preceding elementary proficiency level to a lower intermediary level.

Pre-requisite: PORT1004

## **PORT2007 WRITTEN COMPREHENSION AND PRODUCTION SKILLS III**

This course serves as an introduction to the reading and composition of various forms of written texts. Students will be expected to utilise verbs in the correct tense and learn the subjunctive mood. Through exercises and activities emphasising contextualized use of structures, students



will learn to produce different types of texts suitable for presentation and discussion.  
Pre-requisite: PORT1005

### **PORT2013 WRITTEN COMPREHENSION AND PRODUCTION SKILLS IV**

This course will focus on a comprehensive review of structures previously taught in the last three semesters, and the introduction and reinforcement of new structures. Students will engage in essay writing on various topics and practice summarisation and abstract writing techniques.

Pre-requisite: PORT2007

## **BACHELOR OF LAW (PORTUGUESE)**

### **LAWS1000/LAWS1001 INTRODUCTION TO LAW**

Title I. The concept of Law. Chapter I. The Law as part of the whole social order. 1. The Law and other normative orders. 2. The religion. 3. The ethic. 4. The social behavior. Title II. The aims or values of the Law. Chapter I. Justice and security. Title III. The structure of the Law. Chapter I. The rule of Law. Title IV. Sources of Law. Chapter I. voluntary sources of Law and non-voluntary sources of Law. Title V. Interpretation of the Law. Chapter I. Types of interpretation. 1. Elements of interpretation. 2. Results of the interpretation. Chapter II. Integration of the gaps in the Law. 1. Analogy. 2. Creation of a *ad hoc* rule.

Pre-requisite: None

### **LAWS1002 LEGAL HISTORY**

Title I. Chapter I. Legal thoughts in traditional Chinese society. 1. Divine Law 2. Patriarchal law 3. Confucianism. 4. Legalism. Chapter II. Legal and political thoughts in Modern China. Chapter III. 1. Legal History of Macao. 1.1 Introduction. 1.2 Specificity and sources of law of overseas Portuguese territories. 1.3 Law and justice. 1.3.1. Portuguese law and local laws, scope of application. 1.3.2 Indigenous law and the mixed relations. 1.3.3 Legal pluralism and mixed jurisdiction in Macao. 1.3.4. Judicial organization of Macao. Title II. Chapter I. Introduction. 1. Social history of law. Chapter II. The formation of the Common Law. 1. The Roman Law. Sources: (*Corpus Iuris Civilis*). General Characteristics of the Praetor's Law. The evolution of Roman law until the imperial constitutions. *vulgarrecht*. 2. Legal pluralism. The role of legal thought in the formation and evolution of the common law. The glossators, commentators, *mos gallicus iura docendi*, *usus modernus pandectarum* and naturalists. Chapter III. Philosophy of Law. 1. Legal positivism, legal, historical, sociological and conceptual. 2. Pure theory of law and the right alternative use.

Pre-requisite: None

### **LAWS1003/LAWS1004 CONSTITUTIONAL LAW**

Title I. General notions of Constitutionalism. Chapter I. Constitution as legal statute of politics. 1. The autonomy of public sphere. 2. State as a political form of modernity. 3. The crisis of State: regionalism and globalization. Chapter II. From Constitutionality to Inter-constitutionality. 1. The hierarchical and normative scheme of the constitution of the supervising state. 2. The binding inter-constitutionality of the supervised State. 3. Democracy and rule of law. Chapter III. Comparative Constitutional Law. 1. The Portuguese constitutional experience. 2. The Chinese constitutional experience. 3. The evolution of Macao autonomic status.

Pre-requisite: None

### **LAWS1005/LAWS1006 MACAO BASIC LAW**

Title I. The Basic Law of the Macao SAR. Chapter I. Characterizing the Macao SAR. 1. Macao SAR as a political region. 2. Scope of autonomy of Macao SAR. 3. Macao SAR's political system. Chapter II. Purposes of Basic Law. 1. Theories on the purposes of Basic Law. 2. Art. 31 of the CPRC and its double task. 3. Luso-Chinese joint-declaration. Chapter III. Legal nature of the Basic Law. 1. Ideas on the legal nature of the Basic Law. 2. Basic Law as an ordinary

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legal norm. 3. Basic Law as statutory legal norm. 4. Basic Law as a reinforced legal norm. 5. Basic Law as a material constitutional legal norm. Chapter IV. Guaranty of the Basic Law. 1. Interpretation of the Basic law. 2. Guaranty of the reinforced value of the Basic Law. 3. Limits to revision of the Basic Law.

Pre-requisite: LAWS1003 and LAWS1004

### **LAWS1007/LAWS1008 PUBLIC INTERNATIONAL LAW**

1. Concept and nature of Public International Law. 2. Relationship between International and Domestic Law. 3. Sources of Public International Law: treaties and customary norms. 4. International Legal Personality. 5. The State: elements of the State, the recognition of State, succession of states, rights and duties of the State. 6. International Organizations: definition and types. The United Nations. 7. Diplomatic and Consular relations Law. 8. The pacific resolution of the international conflicts. 9. Individuals in Public International Law. 10. Application of Public International Law to Macao.

Pre-requisite: None

### **LAWS1009 ECONOMICS I**

Title I Introduction. 1. Economics: scope, concepts and method. 2. The organization of economic activities. 3. Brief history of economics and the economic systems. Title II. Microeconomics. 4. Demand: The behavior of consumers. 5. Supply: The behavior of firms. 6. The behavior of markets and prices. 7. Markets for production factors and income distribution. 8. Specialization and international trade.

Pre-requisite: None

### **LAWS1010 ECONOMICS II**

Title I. Macroeconomics. 1. Economic flows and National Accounting. 2. Economic cycles, aggregate demand and the multiplier model. 3. Government: policies, taxation and expenditure. 4. Unemployment, inflation and the stabilisation and growth policies. 5. Money, the banking system and the financial markets. 6. Open economies, growth and economic integration. Title II. Current topics. 7. International trade: issues and trends. 8. Economics and the environment. 9. Economics, the law and the social institutions.

Pre-requisite: LAWS1009

### **LAWS1015 ENHANCEMENT LEARNING ACTIVITIES**

Apart from regular legal courses, students are encouraged to participate in other activities, such as attending seminars, participating in competitions, sharing and discussing legal problems with one another.

Pre-requisite: None

### **LAWS1017 TAX LAW**

Introduction. I. Tax Law. Historical background. Theory of taxation. Taxes and other contributions. Administrative taxation procedure. Classification of taxes. Definition of Taxes. Tax law and other fields of law. Constitutional Law. Administrative Law. Commercial law. Private Law. Criminal Law. International Law. II. Tax Jurisdiction. Sources of tax law. General principles of law. International and interregional tax law agreements. Customary law. Jurisprudence. Doctrine. Interpretation of tax laws. Integration of tax laws. Application of tax laws in time and space. Double taxation. Tax avoidance and tax evasion. International exchange of tax information. III. Legal relation. Nature. Parties. Tax obligation. Tax duties and warranties. Execution procedure. IV. Taxation in Macao. Evolution. Taxation on income. Taxation of property. Taxation of services. Stamp duty. Special Gaming Tax. Other taxes.

Pre-requisite: LAWS2004 and LAWS2005

### **LAWS1019 ENVIRONMENTAL LAW**

This course covers the environmental values and policies, history of environmental law, the principles and framework of environmental regulations, the use of risk assessment techniques in environmental law, the regulatory tools of environmental law, and the enforcement and

dispute settlement mechanisms and international responsibilities. Special topics like water pollution, air pollution, cross-border movement of hazardous wastes and other local, regional and global environmental problems.

Pre-requisite: LAWS2006 and LAWS2007

### **LAWS1020 REGISTRY AND NOTARY LAW**

I. Concept: 1. the structure and function of registry and notary agencies of Macao SAR. 2. The similar organs and functional difference. 3. The common perspectives of public administration with private interest: Prevention of conflict as an indispensable contribution in administration of justice.II. The statute law of registry and notary: 1. Organic law. 2. Law codes. 3. Separate legislation.III. Law of civil registry. 1. Concept and scope. 2. Theory and practice. 3. Principle of information. IV. Law of Registry of House. 1. Concept and scale 2. Theory and practice. 3. Principle of information. 4. Commercial registry and registry of automobiles, ships and airplanes. V. Notary Law. 1. Concept and scope. 2. Theory and practice. 3. Principle of information.

Pre-requisite: LAWS3002 and LAWS3047, LAWS3014 and LAWS3015

### **LAWS1021 FORENSIC MEDICINE**

1 Legal Medicine represents four broad areas of medical practice, encapsulating the fields of Civil Legal Medicine, Criminal or Forensic Legal Medicine, Medical Ethics, and Medical Practice areas affected by statute law. The course includes: 1. Legal Medicine context. The compared law in medical issues in Macao, Portugal and other countries. Medical reports and certificates. 2. Forensic Medical Sciences (concept, organization, law). 3. Corporal offenses. 4. Forensic sexology. 5. Sudden natural death. Violent death. Homicide, suicide, parasuicide, and deliberate self-harm. 6. Injury and death from physical agents. 7. Wounding. 8. Asphyxia. Immersion and Drowning. 9. Death investigation and causes of death. Autopsy, medico-legal examinations. 10. Sexual offenses. 11. Abortion and Pregnancy. Infant deaths. 12. Toxicology. Poisoning and drugs. Alcohol abuse. Drug addiction. 13. Forensic Psychiatry and Mental Health. 14. Odontology, Anthropology. Man-made and natural Mass disasters. Corpses Identification. 15. Labor, Occupational Health and Safety Law. 16. Medical ethics, responsibility and negligence. Transplantation of organs and tissues practice of observations. 17. Euthanasia. 18. Assisted reproductive technologies and ethical concerns. 19. Debate on Public Health Protection and Prevention. International Health Regulation and law enforcement in epidemics. 20. Genetics and DNA. Use of DNA in Paternity and Criminal identification. 21. Basic research on medico-legal areas performed by students.

Pre-requisite: None

### **LAWS1022 SPECIAL PART OF CRIMINAL LAW**

Title I. Crimes against life. 1. Homicide. 2. First-degree murder. 3. Manslaughter. 4. Infanticide. Title II. Crimes against intra-uterine life. 1. Abortion. Title III. Crimes against physical integrity. 1. Assault. 2. Serious assault. 3. Aggravation due to the outcome. IV. Domestic violence. V. Crimes against personal freedom. 1. Threat. 2. Coercion. 3. Kidnapping. VI. Crimes against sexual freedom and self-determination. 1. Rape. 2. Statutory rape. VII. Crimes against property. 1. Theft. 2. Robbery. VIII. Other special crimes.

Pre-requisite: LAWS3012 and LAWS3049

### **LAWS1023 JURIDICAL PRACTICE**

Part I. 1. Administration of justice: Generality. 2. Organs exercising jurisdictional function. 3. Classification of courts. 4. Hierarchy of courts. 5. Principle regulating administration of justice 6. The relevant statute laws. 6.1. The Basic Law of Macao SAR. 6.2. The Basic Law of Judicial Organization. 6.3. Civil Procedural Code. Part II. - Litigation Practice. 1. The judicial protection in Macao SAR. 2. Legal profession. 3. Judicial mandate. 4. The organs and entities with specific function of this area. 5. The relevant statute laws. 5.1. The Basic Law of Macao SAR. 5.2. The Basic Law of Judicial Organization. 5.3. The statute of lawyers and the relevant moral and disciplinary regulations.

Pre-requisite: LAWS4011 and LAWS4050

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## **LAWS1027 INTRODUCTION TO ALTERNATIVE DISPUTE RESOLUTION**

This course will provide in-depth introduction to the alternative dispute resolution, including arbitration and mediation, and its linkage and connection with court adjudication. It will cover the law and practice of ADR in both civil law and common law jurisdictions, with a focus on its application in Macao.

Pre-requisite: LAWS2002 and LAWS2003

## **LAWS2000/LAWS2001 GENERAL THEORY OF CIVIL LAW I**

Title I. Introduction. 1. General concepts of civil law. 2. Preliminaries. Title II. General theory of the civil juridical order. Chapter I. Sources of civil law. Chapter II. Fundamental principles of civil law. Title III – General theory of the civil juridical relationship. Chapter I. General theory of the individuals of the juridical relationship. 1. General concepts. 2. Natural persons. 3. Legal persons. Chapter II. General theory of the object of the juridical relationship. 1. General concepts. 2. Things and patrimony.

Pre-requisite: None

## **LAWS2002/LAWS2003 GENERAL THEORY OF CIVIL LAW II**

Title I. General theory of the civil juridical relationship (cont.). Chapter I. General theory of the juridical fact. 1. About juridical facts in general: concepts and classifications; acquisition, modification and extinction of juridical relationships; juridical transaction and simple juridical act. 2. Transactional declaration: general concepts; interpretation and integration of juridical transactions; divergence between the intention and the declaration; defects of the intention; representation in juridical transactions. 3. Transactional object. 4. Accidental elements of juridical transactions. 5. Ineffectiveness and invalidity of juridical transactions: general concepts; invalidities; reduction and conversion of juridical transactions.

Pre-requisite: LAWS2000 and LAWS2001

## **LAWS2004/LAWS2005 ADMINISTRATIVE LAW I**

I. Public administration 1. Public Administration. Concept and different meanings. 2. Historical evolution. 3. Public Administration and the other State functions 4. Administrative systems: comparison between the continental-European system and the British system. II. Administrative organization 1. The structure of the public administration 2. Types of inter-organic relations: hierarchy, superintendence and supervision; delegation of powers 3. The Administrative organization of the Macao SAR. III. The administration and the Law 1. Public Administration and private law 2. Public administration and administrative law: the principle of legality of Administration. 3. Activity bound by the law and discretionary activity: the administrative discretionary activity. 4. Sources of administrative law: in special, the administrative Regulations.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

## **LAWS2006/LAWS2007 ADMINISTRATIVE LAW II**

I. The Administrative Activity. 1. General notions: legal facts in administrative law; in special the administrative illicit 2. Administrative activity. II. The regulatory power. 1. Notion, function and grounds for the administrative regulations 2. The administrative regulations and the law: admissibility of the independent regulations. 3. The regulatory procedure. III. Administrative act 1. Notion and meaning 2. Typology 3. Instrumental acts. 4. The administrative procedure. 5. Effectiveness and legal strength of the administrative act: the possibility of execution by Administration of its own acts. 6. The structure of the administrative act: the subject, the object and the declaration. 7. The defects of the administrative act. Types of invalidity. IV. The administrative contract 1. General notions: the public administration, consensus and authority. 2. Legal regime: formation, content and principles relating to the 'life' of the administrative contracts. Invalidity of administrative contracts.

Pre-requisite: LAWS2004 and LAWS2005

## **LAWS2013 PUBLIC ECONOMICS**

The meaning of Public Economics - Financial Activity of State: Expenses, Revenues and

Budget. Economic Activity of State: Characterization of Public Economic activity and the Enterprise activity of State - Public Revenues - Public Expenses - Public Budget – Financial Policy problems.

Pre-requisite: None

### **LAWS3000/LAWS3046 OBLIGATION LAW I**

Chapter I. Introduction. 2. Obligation law and the importance of its study. 2. Reference to Comparative Law. 3. Guiding principles of Civil Law and Obligation Law. 4. General notions. Obligation *stricto sensu*. Performance of the obligation. The problem of non-autonomous obligations. Complex 'obligational' relation. Function of the obligation and the interests of the creditor. 5. Credit rights and property rights. The external effect of obligations. 6. Guiding Principles of Obligation Law. Principle of individual autonomy and contractual freedom. Principle of good faith. Principle of the unjust enrichment. Chapter II. Sources of obligations. 1. Contracts. Contractual relations. 2.1. Promissory contract. 2.2. Preference pact. 2.3. Exception of non-performance. Termination of the contract. 3. Unilateral transactions. 4. Management of alien affairs. 5. Unjust enrichment. 6. Civil Liability. 6.1. Contractual and non contractual liability. 6.2. Liability for unlawful actions. Requirements and regime of the obligation on compensation. The function of civil liability. 6.3. Objective Liability. Liability of the committer. Liability of public legal persons by acts of private management. Liability for damages caused by animals. Liability for damages caused by terrestrial circulation vehicles. Liability for damages caused by electrical energy or gas installations. 6.4. Liability for legal actions. 6.5. Mandatory civil liability insurance. 6.6. Mandatory automobile civil liability insurance. 6.7. Limitations to the liability and the right to compensation.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3002/LAWS3047 OBLIGATION LAW II**

Chapter I. Modalities of obligations. 1. Obligations in relation to their binding: the natural and civil obligations. 2. Obligations in relation to the individuals: conjoint and jointly liable obligations. 3. Obligations in relation to the object. Pecuniary, interest and compensation obligations. Chapter II Transfer of obligations. 1. Transfer of credit. Sub-rogation. 2. Individual transfer of debts. 3. Cession of the contractual position. Chapter III General security of obligations. 1. Scope. 2. Protection of patrimonial guarantees. Void contracts. Sub-rogation of the creditor to the debtor. *Actio pauliana*. Seizure of assets. Chapter IV. Special security of obligations. 1. Personal and real securities. 2. Bail. 3. Real securities. 4. Bond. Chapter V. Performance and non performance of obligations. 1. Performance. Performance and principle of good faith. Timeliness of obligations. Who can perform and to whom can the obligation be performed. Place and deadline of the performance. Allocation and evidence of performance. 2. Non performance. Impossibility and delay not imputable to the debtor. Impossibility and delay imputable to the debtor. 3. Defective performance. 4. Contractual regulation of the rights of the creditor. Penalty clause. 5. Forced execution of the credit. Action to enforce the performance, specific performance, performance by equivalent. 6. Cession of assets to the creditors. 7. Delay of the creditor. Chapter VI. Causes of extinction of obligations besides the performance. Chapter VII. Special contracts. 1. Contracts regulated and not regulated in the law. 2. Mixed contracts and contracts related. 3. Contracts regulated in the Civil Code. 4. Gaming and betting. General and special features of gaming and betting.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046

### **LAWS3004/LAWS3005 LABOUR LAW**

Title I. Labour Law: concept, object and importance. Chapter I. Historical evolution of Labour Law. Chapter II. Sources of Labour Law. Title II. The labour contract. Chapter I. Concept, elements and legal characteristics of the labour contract. Title III. The formation of the labour contract. Chapter I. Parts of the labour contract. 1. Employee. 2. Employer. 3. Rights and duties. Chapter II. Types of employment contracts. 1. Indefinite duration period. 2. Fixed term and non-fixed term. Chapter III. Probationary period. Chapter IV. Employment of minors. Title IV. Working time. Chapter I. Normal working hours. 1. Exemption for the working time schedule. 2. Overtime work. 3. Night work. 4. Shift work. Chapter II. Periods of rest. 1. Weekly rest. 2.

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Holidays. 3. Annual leave. 4. Absences. 5. Maternity leave. Title V. Salary. Chapter I. Types of salary. 1. Basic remuneration. 2. Variable remuneration. 3. Calculation of the retribution. 4. Compensation and deductions on salary. Title VI. Termination of the labour relation. Chapter I. Forms of termination. 1. Revocation. 2. Resolution. 3. Rescission. 4. Expiry. Title VII. Labour relations with non-residents workers. Title VIII. Social Security.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3006/LAWS3007 COMMERCIAL LAW I**

Title I. The exercise of commercial entrepreneurs in general. Chapter I. 1. Introduction to Commercial Law. 2. The commercial law as the law 'around' the business. Chapter II. Commercial enterprise and Commercial entrepreneurs. 1. Commercial entrepreneurs and acts of commerce. Chapter III. Commercial entrepreneurs. 1. Commercial capacity, Impediments and incompatibilities. 2. Legitimacy. 3. Obligations of commercial entrepreneurs. 3.1. Firm. 3.2. Commercial bookkeeping. 3.3. Commercial register. 3.4. Render accounts. Chapter IV. Representation in the performance of an enterprise. 1. Managers. 2. Assistants of an entrepreneur. Chapter V. Liability for the exercise of an commercial enterprise. 1. Liability for debts contracted in the exercise of an enterprise. 2. Liability for defective products. Chapter VI. A commercial enterprise as an object of business. 1. The right over the enterprise and the rights on the assets of the enterprise. 2. The commercial enterprise as object of contracts. 2.1. The transfer of the commercial enterprise. 2.2. Lease of commercial enterprise. 3. Usufruct of commercial enterprise. 4. Pledge of commercial enterprise. Chapter VII. Trade distinctive signs. 1. Firm (remission). 2. Name and emblem. 3. Trademark. Chapter VIII. Competition legal discipline. 1. Competition in general. 2. Unfair competition. Title II. Negotiable instruments. Chapter I. Negotiable instrument in general. Chapter II. Bill of exchange. 1. Typical notes of the obligation incorporated in a negotiable instrument. 2. Requisites of the bill of exchange. 2.1. Essential requisites. 2.2. Non essential requisites. 3. Legal institutes of the Bill of Exchange. 3.1. Drawing. 3.2. Endorsement. 3.3. Acceptance. 3.4. 'Aval'. 3.5. Types of maturity. 3.6. Recourse.

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3008/LAWS3009 COMMERCIAL LAW II**

Title I. Commercial companies in general. Chapter I. Notion of commercial company and related figures. Chapter II. Brief historical reference. Chapter III. Types of commercial companies. Title II. Constitution and functioning of commercial companies. Chapter I. Constitution of commercial companies. Chapter II. Legal personality and capacity of commercial companies. Chapter III. On the shares. Chapter IV. Capital and legal capital, profits and losses. Chapter V. Company organs. 1. Administration. 2. General Meeting. 2.1. Company resolutions. 2.2. Ineffectiveness of company resolutions. 2.2.1. Resolutions ineffective. 2.2.2. Void resolutions. 2.2.3. Voidable resolutions. 2.2.4. Nonexistent resolutions. 3. Supervisory Board and single supervisor. 4. The company secretary. 5. The liability of members of company organs. Title III. Amendment of the articles of association. Chapter I. Amendments to the articles of association. 1. Generalities. 2. Increase or reduction of the company capital. 3. Modification of the company object. Chapter II. Mergers and divisions of companies. Chapter III. Transformation of companies. Title IV. Extinction of commercial companies. Chapter I. Winding up of commercial companies. Chapter II. Liquidation of commercial companies.

Pre-requisite: LAWS3006 and LAWS3007

### **LAWS3010/LAWS3048 CRIMINAL LAW I**

Title I. General Considerations. Chap. I. Criminal Law in a formal perspective. 1. Concept. Chap. II. The whole Criminal Law Science. Chap. III. Criminal Law main principles. Chap. IV. The role of the Criminal Law in the legal system – the question of the material concept of crime. 1. The criminal legal property. Chap. V. The aim of the penalties and the security measures. Chap. VI. Criminal Law limits. 1. Comparison to the other Law fields. Chap. VII. The principle of the legality – role, reasons and consequences. 1. Criminal Law interpretation and integration. 2. Criminal Law validity – application of the Criminal Law depending on time and space factors. Title II. The General Theory of the Criminal Infraction. Chap. I. Introduction. 1. Constitutive

elements of the crime. 2. Classification of the crimes. Chap. II. The so-called 'incriminatory type'. 1. The illicit type in an objective perspective and the attribution of the result to the behave. 2. The illicit type in a subjective perspective. 3. The intention and its elements. 4. The problem of the mistake. 5. The negligence.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS3012/LAWS3049 CRIMINAL LAW II**

Title I. Continuation of the General Theory of the Criminal Infraction. Chap. I. The so-called 'justifying type'. 1. The causes of exclusion of the illicit. Chap. II. The so-called 'type of fault'. 1. Definition of the criminal fault. 2. Intentional and negligent fault. 3. Non-imputability due to the age or to a mental health disorder. 4. The causes of exclusion of the fault. Chap. III. Punishment. Chap. IV. Omission – general notions. Chap. V. Attempt. Chap. VI. Participation in the crime - perpetration and complicity. Title II. Legal consequences of the crime. Chap. I. Penalties. 1. Preliminary remarks. 2. Imprisonment – or the penalty that restricts the freedom . 3. Fine – or the penalty that restricts the property. 4. Alternative penalties. 5. Accessory penalties. Chap. II. Determination of the penalty. 1. The system of determination of the penalty. 2. The concrete penalty measure. 3. Special cases of determination of the penalty. Brief approach.

Pre-requisite: LAWS3010 and LAWS3048

### **LAWS3014/LAWS3015 PROPERTY LAW**

Introduction (evolution of the systems of real property rights). I. Notion of real property right. II. Characteristics of the real property rights. III. The real property rights. Community property. Joint ownership. Horizontal ownership. IV. Limited real property rights. The usufruct. The use and habitation rights. Timesharing right. Superficial right. Emphyteusis constituted before the new Civil Code of Macao. Real property rights resulting from concession of government land in Macao: granted dominium utile; ownership of buildings on leased land. Abstract on real property rights for acquisition and for real security. V. Possession. Definition. Possession and mere detention. Rights that can be possessed. Things that can be possessed. Capacity for possess. Characteristics of possession. Acquisition of possession. The protection of the possession: Rights resulting from the possession; Legal actions to defend the possession. Usucapio (the adverse possession).

Pre-requisite: LAWS2002 and LAWS2003

### **LAWS3016/LAWS3017 ADMINISTRATIVE LAW III**

I. Introduction. 1. Administrative justice. 2. Separation of powers. 3. Main historical models of administrative justice. 4. Subjective and objective models. II. Evolution of the judicial review in Macao. 1. Jurisdictional competence within the judicial review in Macao. The administrative Court. Appeal Courts. Judicial organization in Macao. III. Mechanisms of Judicial review. 1. Judicial review. 1.1 Concept and nature. 1.2 General principles. 1.3 Administrative acts that can be judicially reviewed. 1.4 Procedural requirements 1.5 Standing of the parties 1.6 Proceeding. 2. Special judicial remedies 2.1 Judicial review of norms 2.2 Electoral litigation 2.3 Administrative infractions 3. Administrative Actions 3.1 Judicial action on administrative contracts 3.2 Judicial action on torts liability 3.3 Injunction. Judicial action to compel the practice of an administrative act 3.4 Judicial action for the protection of rights and lawful interests. 4. Interim Measures. 4.1 Suspension of the effects of an administrative decision. 4.2 Provitory injunction. 4.3 Production of endangered evidence. 4.4 Other interim measures. IV. Judicial Decisions 1. Legal effects of the judicial decisions V. Judicial appeals 1. Right to appeal 2. Legal regime. VI. Execution of judicial decisions. 1. Execution for the delivery of an asset or performance in kind. 2. Execution for payment of an amount 3. Guarantees against illegitimate non execution. VII. Arbitration 1. Ambit. 2. Appeal of arbitration. 3. Arbitration centers.

Pre-requisite: LAWS2006 and LAWS2007

### **LAWS3018/LAWS3050 CIVIL PROCEDURAL LAW I**

I. Introduction. Procedure and Procedural Law. Jurisdiction and jurisdictional function. General frame of the action in civil jurisdiction. II. The action. The right to a legal action. Legal classification of the actions: according to their goal, according to their form. Interlocutory

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injunctions. III. Civil Procedure Law. Concept. Features. Importance. Interpretation and integration of its norms. Application in time. Application in space. IV. Sources of the Portuguese Civil Procedure Law and close Disciplines. Historical evolution. Special mention of Macao. V. Theory of the Procedural Relationship. The instance as a procedural relationship. The structure of procedural relationship. The parties. Procedural requisites concerning the parties. Judiciary personality. Judiciary capacity. Legitimization. Compulsive representation by an attorney at law. The procedural interest. The court. The judicial organization. Jurisdiction and competence. The object of the procedural relation. The claim and the cause of action. VI. The process forms. Common process and special processes. Ordinary and summary common process. Special process of small claims.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046

#### **LAWS4000/LAWS4001 FAMILY LAW**

Chapter I. Introduction. 1. Legal notion of family. 2. Constitutional principles. 3. Sources of Family Law. 4. Features of family law and of family rights. Chapter II Family relations. 1. Relatives. Affiliation relationship. Establishment of mother-child relationship. Establishment of father-child relationship. Assisted procreation. Medical assisted procreation. Effects of the affiliation. Parental responsibility. 2. In-laws. 3. Adoption. Constitution and effects. 4. Marriage. Concept, Matrimonial regimes, features of the marriage as an act and as a status. Chapter III. Marriage. 1. Constitution of the matrimonial relation: marriage as an act. Civil marriage. Requirements. Consent. Capacity. Formalities. Invalid marriage. Putative marriage. 2. Effects of marriage: marriage as a status. 2.1. Personal effects. 2.2. Patrimonial effects. General principles and suppletive regime of the matrimonial goods. 3. Modification of the matrimonial relations. Judicial separation of goods. Judicial separation of persons and goods. 4. Termination of the matrimonial relation. 4.1. Death and presumed death. 4.2. Divorce. Divorce by mutual consent. Process. Nature. Litigious divorce. Causes of litigious divorce. Chapter IV De facto union. Notion of legally relevant de facto union.

Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

#### **LAWS4002/LAWS4003 PATRIMONIAL FAMILY LAW AND SUCCESSION LAW**

Title I. Patrimonial Family Law. Chapter I Introduction. Patrimonial effects of relatives, in-laws and adoption. Chapter II Patrimonial effects of marriage. 1. Regime of the matrimonial goods. Nuptial agreements. Description of the legal regimes of goods. Separation. General community of property. Community of acquired property. Participation in acquired property. Administration of the goods of the couple. Matrimonial illegitimacies. Liability for the debts of the spouse. 2. Termination of the patrimonial relations. Chapter III Alimony. Title II. Succession Law. Chapter I Introduction. Legal notion of succession. Constitutional principles and sources. Succession systems. Features of the succession law and of the succession rights. Chapter II Succession in general. 1. Death as a prerequisite to succession. 2. Several types of succession by death. 3. Heir and legatee. 4. Opening of succession. 5. Succession 'calling', succession 'appointment', content and object of the succession 'calling'. Prerequisites of succession 'calling'. Prevalence of the succession 'appointment'. Existence of the 'called' person. Succession capacity, indignity and disinheritance. Modes of 'calling'. Indirect 'calling'. Right to representation. Direct substitution. Right of accretion. 6. Vacant succession. 7. Succession acquisition. Acceptance and refusal of the inheritance. 8. Request of the inheritance. 9. Transfer of the inheritance. 10. Administration of the inheritance. 11. Charges for the inheritance and its liquidation. 12 Partition of the inheritance. Chapter III Successions in special. 1. Legal succession. 2. Legal mandatory succession. 3. Testate succession. 4. Contractual succession. Partition in life.

Pre-requisite: LAWS4000 and LAWS4001

#### **LAWS4004/LAWS4005 COMMERCIAL LAW III**

Title I. Commercial contracts in general. Chapter I. Introduction. Chapter II. General theory of Commercial contracts. 1. Physiognomy of the modern commercial contract: the problem of standard contractual clauses. 2. Special legal regime of commercial obligations. 3. Prescription of commercial obligations. 4. Classification of commercial contracts. Title II. Study of some Commercial contracts in particular. Chapter I. Contract of sale. Chapter II. Contract for sale or



return. Chapter III. Supply contract. Chapter IV. Commission contract and forwarding contract. Chapter V. Distribution contracts. 1. Agency contract. 2. Commercial concession contract. 3. Franchising. 4. Brokerage contract. Chapter VI. Advertising contracts. 1. Contract Advertising. 2. Advertising diffusion contract. 3. Advertising creation contract. 4. Advertising sponsorship contract. Chapter VII. Carriage contract. Chapter VIII. Deposit in general warehouses. Chapter IX. Lodging contract. Chapter X. Current account contract. Chapter XI. Securities lending contract (reporte). Chapter XII. Banking contracts. 1. Bank deposit. 2. Rental of safe deposit boxes. 3. Opening credit. 4. Bank advance. 5. Current Bank account. 6. Bank discount. 7. Factoring contract. 8. Leasing. Chapter XIII. Guarantee contracts. 1. Commercial pledge. 2. Fiduciary transfer guarantee. 3. Floating charge. 4. Independent guarantee. Chapter XIV. Insurance contract.

Pre-requisite: LAWS3008 and LAWS3009

### **LAWS4006/LAWS4007 PRIVATE INTERNATIONAL LAW**

Title I. 1. Introduction. 2. Method. 3. General principles and regulation values. 4. Function of the conflict rule. 5. Structure of the conflict rule. 6. Classification. 7. Renvoi (remission/transmission). 8. Vested rights. 9. General clause of public policy ("ordre public"). 10. The 'fraus legis'. Title II. 1. Personal law. 2. Natural persons. 3. Juridical persons. 4. Law on foreigners. 5. Legal business. 6. Obligations. 7. Real property rights. 8. Family. 9. Succession.

Pre-requisite: LAWS2002 and LAWS2003, LAWS4002 and LAWS4003

### **LAWS4008/LAWS4009 CRIMINAL PROCEDURAL LAW**

I. General Notions. 1. Function and meaning of the criminal law procedure. 2. Criminal law procedure within the legal system. 3. The juristic and constitutional compliance of the criminal procedure and its structure. 4. The application of the criminal procedure law. II. General Principles of Criminal Procedure Law. 1. Principles relating to the initial stage of the procedure. 2. Principles relating to the continuation of the procedure. 3. Principles relating to evidence. 4. Principles relating to the form of the procedure. III. The Agents of the Criminal Procedure. 1. Court. 2. Public prosecutor and criminal police bodies. 3. The defendant and the defendant's lawyer. 4. The victim and injured party. IV. Procedural measures. 1. Means to obtain evidence. 2. Safeguard and Police measures. 3. Coercive Measures. 4. Measures of patrimonial guarantee. V. Stages of the Criminal Procedure. 1. The forms of criminal procedure and their respective procedure. 2. Appeals.

Pre-requisite: LAWS3012 and LAWS3049

### **LAWS4011/LAWS4050 CIVIL PROCEDURAL LAW II**

I. Procedural acts theory. Concept of procedural act. Form. Time. Place. Parties. Goal. Pathology of procedural acts. II. Dynamics of the procedural relation. The bringing of a suit. Development of the instance. Modifications. Suspension and interruption. Conclusion. Incidents of the instance. III. Formalities of the Ordinary Declaratory Procedure. Phases. Articulated pleading. Declaration. 'In limine' order. Service of summons. The answer: defensive-answer; counterclaim-answer. The replication. The rejoinder. Supervening articulated pleadings. Healing and abridgement. Curative decision. Facts specification and questionnaire. The instruction. The evidences in general. Material probative law. Formal probative law. The burden of proof. Fundamental principles. Means of proof. Trial. Final hearing. 5. Final decision. 'Res judicata' and its limits. IV. Formalities of the Summary Declaratory Procedure. V. Special procedure of small claims.

Pre-requisite: LAWS2000 and LAWS2001, LAWS3000 and LAWS3046, LAWS3018 and LAWS3050

### **LAWS4013/LAWS4014 CIVIL PROCEDURAL LAW III**

I. General Theory of the enforcement action. Concept and goals. The legal classification. II. Procedural requisites of the enforcement action. 1. Specific requisites. Formal and substantial requisites. The writ of enforcement. Legal nature. Historical evolution. Classification of the writ of enforcement. Consequences of the lack of writ of enforcement or of its non-enforcementness.

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Certainty and exigibility of the debt: The liquidated debt. General requisites of the enforcement action. International and internal jurisdiction. Formal legitimization. Compulsive representation by an attorney. III. Forms of the executive proceedings. Legal regime of the different species and forms of executive proceedings. IV. The phases of the enforcement process. Ordinary enforcement process for the payment of a right amount. Phases: The Articulates. Initially pleading. "In limine" decision. Service of summons. Opposition. Attachment: definition, object, cases of withdrawing from execution and forced sale. Opposition to the attachment. Finding. Concurrence of creditor claims. Reclamation and verification of claims. Proceeding. Payment. Forms of payment. Termination of the enforcement procedure. Voidance and renovation of the enforcement procedure. Summary enforcement procedure for the payment of a certain amount of money. Common enforcement procedure for delivery of a determinate thing. Ordinary and summary proceedings. Common enforcement process for rendering a certain fact positive or negative. Ordinary and summary procedures.  
Pre-requisite: LAWS4011 and LAWS4050

### **LAWS4051 GENERAL THEORY OF LAW**

I. Introduction: Object and interest of the subject. II. The phenomenon of law. 1. Grounds of law. 1.1. Recurrent issues of General Theory of Law. 1.1.1. The concept of law. 1.1.2. Legal norms. 1.1.3. The ground of validity of a legal system. 1.1.4. Hume's law and legal positivism. 1.1.5. The theory of justice. John Rawls: justice as fairness. 1.1.6. Law and ethics.  
Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS4052 COMPARATIVE LAW**

Title I. Introduction. 1. The concept of comparative law and its neighbouring disciplines. 2. The history of comparative law. 3. The function and aims of comparative law. 4. The method of comparative law. 5. Legal formants. 6. Comparative law as a science. 7. The grouping of the legal systems into families. Title II. Legal traditions of the world. 1. Civil Law: a. History. b. Structure. c. Sources. d. The French and German experiences of Codification. e. The diffusion of the respective patterns. 2. Common Law. 2.1. The English Law: a. History. b. Structure. c. Sources. 2.2. The American Law: a. History. b. Structure. c. Sources. 3. Far East Law. 3.1. Chinese Law. 3.2. Japanese Law. 4. Religious Law. 4.1. Islamic law. 4.2. Hindu Law. 5. African law. Title III. Introduction to European Union Law.  
Pre-requisite: LAWS2002 and LAWS2003, LAWS4002 and LAWS4003

### **LAWS4053 BANKING LAW**

Institutional and private perspectives of banking law. Study of the financial system of Macao SAR, as well as the major bank contracts.  
Pre-requisite: LAWS3008 and LAWS3009

### **LAWS4054 CIVIL CONTRACTS**

Study of the civil contracts provided for in the Civil Code, e.g. purchase and sale, donation, lease, rendering of service, mandate, gaming and betting.  
Pre-requisite: LAWS3002 and LAWS3047

### **LAWS5000 GENERAL THEORY OF CHINESE LAW**

Title I. History of Chinese Law. 1. Legal thoughts and characteristics of legal system in ancient China. 2. The transition of Chinese traditional legal system towards modernization. Title II. Constitutional Law. 1. The basic political system. 2. The State Organs of China. 3. Rights and duties of Chinese citizens. Title III. Sources of Law and Legislative System. 1. Hierarchy of sources of law. 2. Legislative procedures prescribed in the Law on Law-Making. Title IV. Judicial System and Judicial Reform. 1. Judicial Organs. 2. People's Courts, Organizations, Jurisdictions and trial systems. 3. People's Procuratorates, Organizations and Competences. Title V. Criminal Law. 1. Scope of application of criminal law. 2. Conception and constitution of crime. 3. Penalties. Title VI. Civil Law. 1. General principles of civil law. 2. The parties of the civil juridical relationship. 3. Civil juridical acts. 4. The right of property. 5. Contracts. 6. Civil liability. Title VII. Marriage and successions law. 1. marriage regimes, divorce regimes and procedures,

2. blood relations and affinity, 3. inheritance, 4. legal succession, 5. testate succession. Title VIII. Company Law. 1. General regime and types of companies, 2. Limited companies. 3. Joint stock limited liability companies 4. Partnership associations. Title IX. Arbitration and mediation  
Pre-requisite: LAWS1000 and LAWS1001, LAWS1005 and LAWS1006

### **LAWS5003 RESEARCH PAPER**

The research may fall on any issue within the subjects taught in the Program. The research shall be conducted under the concerned teacher's supervision. The research paper should count between 6,600 and 11,000 words (between 30 and 50 pages), double spaced lines.

Pre-requisite: None

### **LAWS5004 RESEARCH AND COMMUNICATION SKILLS**

The course has two main goals: on one hand, the students shall learn the basics on how to do research and write a paper (Research Skills); on the other hand, the course shall provide to the students the essential skills in speaking and debating in public, also including the presentation and discussion of a research paper (Communication Skills). The learnings acquired in Research and Communication Skills shall be later on applied to the Research Paper, to be prepared, written, presented and discussed in the 2nd semester.

Pre-requisite: None

## **BACHELOR OF LAW IN CHINESE LAW AND GLOBAL LEGAL STUDIES (IN ENGLISH LANGUAGE)**

### **LAWS1055 CHINESE LEGAL HISTORY**

This course aims at introducing to students China's long legal tradition, and exploring the developments of laws and legal institutions in China's long history in a chronological order. It will start with the Zhou Dynasty and end with the Republic of China. Fundamental legal principles, concepts, and interesting arrangements in major legal areas in each major dynasty will be covered.

Pre-requisite: None

### **LAWS1056 CONSTITUTIONAL LAW**

Constitutional Law is the fundamental Law of a country, which sets out the ground rules and values of the country, allocating and limiting state powers, and enshrining fundamental rights. A decent understanding of constitutional law of a country is the precondition for understanding its whole legal system. This course provides an account and analysis of the text and practice of Chinese constitutional law against the background of China's political system, history and culture. It aims to prepare students for correct and deep understanding and analysing the constitutional, political, and public phenomena and questions that China is facing.

Pre-requisite: None

### **LAWS1057 MACAO AND HONG KONG BASIC LAW**

The Basic Law of Macao/Hong Kong is a national law of China that serves as the de facto constitution of the Macao SAR/Hong Kong SAR. This course aims to provide an understanding of the legal, political, and social values underlying the Basic Law, to explain the legal position of Macao/Hong Kong vis-à-vis the Central Government and the Constitution of the People's Republic of China, and to analyze the basic principles underlying the concept of "one country, two systems" and its practical significance.

Pre-requisite: None

### **LAWS1058 JURISPRUDENCE**

Jurisprudence is two-fold. First, it is the enterprise of thinking abstractly, generally, deeply, critically, and creatively, about law as it is and law as it ought to be. Secondly, it refers to the body of knowledge produced by this enterprise of thinking. The aim of this course is to teach

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students how to think philosophically about law, and to inform students the body of knowledge normally called jurisprudence or legal philosophy, which will cover such major fields as the nature of law, the values of law, the major general themes or topics of law, and the philosophy of major legal areas.

Pre-requisite: None

### **LAWS1059 LEGAL LANGUAGE**

This course introduces the vocabulary and expression of legal English to improve students' listening, speaking, reading, and writing ability in legal English. At the same time, this course will provide materials to help students understand British and American legal culture, learn the legal profession of common law countries, and terminology used in various laws, such as constitution law, criminal law, contract law, and torts, etc. By using case studies and group discussions, this course will introduce the legal practice of common law countries, such as legal aid and application of the law, etc.

Pre-requisite: None

### **LAWS1060 LAW, ECONOMICS AND SOCIETY**

China has been endeavouring to develop its legal system and build a rule-of-law country with Chinese characteristics. Chinese law is deeply rooted in and shaped by China's economy and society. It is impossible to understand Chinese law without understanding its economic and social background. This course will introduce students to the economic and social context of Chinese law, and help them to understand the economic and social causes or forces behind the development or evolution of China's legal system.

Pre-requisite: None

### **LAWS1061 INTERNATIONAL LAW**

The course aims at introducing the normative characteristics of public international law and demonstrating its significance in a globalized legal practice. Tracing the evolution and transformation of the international legal order, course will identify the unique characteristics of international norms and distinguish with domestic legal systems. The emergence of nation states, its powers, duties, privileges, responsibilities and immunities will be systematically introduced with a contemporary emphasis. It will examine the prohibition of use of force and the role of pacific settlement of international disputes. The course will end with assessing the illustration of specific state practice of international law.

Pre-requisite: None

### **LAWS1062 CRIMINAL LAW I**

Criminal law is one of the important fundamental laws in the legal system. This course consists of the definitions, principles, and important legal provisions of criminal law. This course mainly focuses on the legal norms of crimes, criminal liabilities, and penalties. This course will enable students to learn the basic concepts and theories of criminal law comprehensively and systematically, be familiar with the legal provisions.

Pre-requisite: None

### **LAWS1063 CIVIL LAW I: GENERAL PRINCIPLES**

As an introductory course to civil law, this course covers topics from basic theories of civil law to issues of practical relevance, and offers an overview of the General Provisions of the Civil Law of the PRC. The course focuses on the basic principles, party to the civil legal relation, legal relations, legal acts, statute of limitations and other theoretical priorities and difficulties, with the aim of giving students a more comprehensive understanding of the general topics of civil law, while laying a good foundation for their study of civil law and other sectoral laws.

Pre-requisite: None

### **LAWS2015 CIVIL LAW II: CONTRACT AND TORT**

This course is based on the Contract Law and Tort Law in Civil Code of the PRC, aiming to enable students to study the Chinese law of obligations from a perspective of comparative law,

master and flexibly apply the relevant norms of Chinese contract law, and form a rigorous and scientific approach to jurisprudence. At the same time, the course aims to help students understand the basic principles and knowledge of tort law, improve the ability to prevent risks and independently deal with tort issues.

Pre-requisite: None

### **LAWS2016 CRIMINAL LAW II: SPECIAL PRINCIPLES**

This course will enable students to understand the basic content of the specific provisions of the criminal law. The specific provisions of the criminal law include the constitution of specific crimes and the specific penalties, which are the important contents of the criminal law. There are more than 400 specific crimes in Chinese criminal law, and this course focuses on more common and typical crimes in practice, especially the definition of each crime and the differences of the crimes which are easily confused. This course will make students use the knowledge they have learned to analyse cases concerning conviction and sentencing based on the facts and law of each individual case.

Pre-requisite: None

### **LAWS2017 ADMINISTRATIVE LAW AND PROCEDURE I**

This course will explain comprehensively and systematically the basic concepts, basic principles, and basic theories of administrative law, and familiarize students with the laws (i.e. currently legally valid norms) and the practice of administrative law in China. It will demonstrate to students how to use these norms and principles to solve administrative issues or disputes by means of analysis of real-life cases.

Pre-requisite: None

### **LAWS2018 WORLD TRADE ORGANIZATION (WTO) AND REGIONAL TRADE LAW**

This course offers a comprehensive introduction to the law governing global and regional trade relations under the aegis of the World Trade Organization (WTO) as a part of the wider field of international economic law. The course covers in particular the milestones in the history of the multilateral trading regime from the past to the present, the principal objectives underlying the regulation of international trade, the main trade agreements and trade policies covered as well as an outline of the system for the settlement of disputes of the WTO as exemplified by various important cases decided by the WTO.

Pre-requisite: None

### **LAWS2019 INTERNATIONAL HUMAN RIGHTS LAW**

Aiming to introduce how international law serves human rights protection, this course will systematically examine its manifestation in specific rights, institutional mechanism and the municipal context. The scope of protection of specific categories of rights comprehending individual and collective rights, economic, social and cultural rights and rights of specific vulnerable groups will be studied in detail. Human rights arising in the context of war, international criminal justice, the role of inter-governmental institutions and inter-disciplinary issues in human rights will receive a special focus. Finally, the contribution of specific states to international human rights law and domestic implementation will be studied.

Pre-requisite: None

### **LAWS2020 CIVIL PROCEDURE LAW**

Civil Procedure Law is an essential branch of law. This course will introduce the basic concepts of civil procedure law, as well as their applications in judicial practice. It will also introduce civil procedure systems and relevant theories in selected foreign countries. Meanwhile, this course will provide a framework for understanding the specific connotation of judicial justice and procedural justice. Moreover, to cultivate students' ability to analyse and solve practical problems, this course will use case studies and group discussions.

Pre-requisite: None

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### **LAWS2021 CRIMINAL PROCEDURE LAW**

The course will enable the student to understand the whole process of criminal procedure, including general theory and practical measures and procedures. Based on the understanding of the general background and principles of criminal procedure, the role of each participants will be introduced, as well as the compulsory measures and evidence. The students will learn the criminal procedure step by step, and understand how the procedure will proceed in the judicial practice. Mutual legal assistance is a very important part for the student to understand how criminal procedure will be conducted in a global and regional context.

Pre-requisite: None

### **LAWS2022 COMMON LAW AND EQUITY**

This course is aimed at introducing common law and equity to students of civil law jurisdictions. The course will trace the evolution and characteristics of English common law and equity and introduce other features like system of writs, trial by jury and determination of ratio decidendi and obiter dictum in judicial precedent. English law of obligations relating to contracts and torts, common law and equitable remedies, equity and its manifestation in law of trusts will be introduced. It will compare key common law jurisdictions and explore examples of legal transplants and harmonization between common law and civil law legal systems.

Pre-requisite: None

### **LAWS2023 ADMINISTRATIVE LAW AND PROCEDURE II**

This course will focus on the law and the practice of administrative litigation in China, and help students to understand administrative law through the lens of judicial review. It aims to answer four big questions in a comprehensive and systematic way. First, what types of administrative cases Chinese courts can adjudicate? Second, what are the criteria that Chinese courts use to evaluate the legality and reasonableness of administrative actions? Third, what are the remedies that Chinese courts can offer the parties litigant? Fourth, what are the steps that the parties litigant have to follow in an administrative lawsuit? This course will combine interpretation of administrative statutes and analysis of real-life cases.

Pre-requisite: None

### **LAWS2024 GLOBAL BUSINESS LAW**

The course specializes on the study of the rights and obligations between merchants, including legal entities, arising from international (cross-border) commercial transactions. The course covers the basic concepts of company law, international commercial contracts, international transport as well as international commercial dispute resolution. The course will address legal problems and issues in the context of international commercial transactions by summarizing the relevant international and domestic legal theories and precedents.

Pre-requisite: None

### **LAWS3034 CIVIL LAW III: PROPERTY LAW**

This course takes the Property Law in Civil Code of the PRC as the basic content, which requires students to further master the knowledge of property law based on the general theory of civil law. The course is mainly divided into six parts, including introduction, general theory of property rights, possession, ownership and security interests. Besides the Chinese mainland legal system, contents of this course also include local real rights in Macao from which students will be able to understand the differences between these two real rights systems.

Pre-requisite: None

### **LAWS3035 FAMILY LAW AND SUCCESSION LAW**

Family Law and Succession Law course enable a student to understand the nature and scope of family law and the function of family law in society. The course is based on the current Chinese laws, regulations and judicial interpretations, absorbing the latest research results of family law and succession law, combining judicial practice, and systematically elaborates the basic knowledge, basic theories and basic systems of family law and succession law in China.

Pre-requisite: None

### **LAWS3036 MOOTING, MOCK TRIALS AND ADVOCACY SKILLS**

Aimed at developing essential lawyering skills for students, this course explores fundamental traits vital for various forms of adversarial legal process. Focusing on mootings, mock trials and arbitration, the course provides practical orientation on advocacy skills needed at various stages. Dividing into written and oral stages, the course covers reviewing moot problems, assessment of claims and defences, identification of potential legal submissions, conducting legal research, drafting of written memorials, structuring oral arguments, responding to bench interventions, mastering persuasion, rebuttal and sur-rebuttal. It covers skills for advocacy in arbitration, effective examination and cross-examination in mock trials and preparation for moot competitions.

Pre-requisite: None

### **LAWS3037 INTERNATIONAL INVESTMENT LAW**

This course introduces the normative framework protecting foreign investments and the investor-state dispute settlement mechanism. The course will trace the foundations of international legal protection including the customary international law and other general principles governing foreign investments. Contractual and domestic law protection of foreign investments will be examined, before typical legal standards in bilateral investment treaties are systematically studied. The role of multilateral instruments, especially related to contemporary trends in investor-state dispute settlement, investment guarantee and mega free trade agreements would be assessed. Foreign investment related treaty law and practice of specific states would be focus in the end.

Pre-requisite: None

### **LAWS3038 LAW OF EVIDENCE**

This course introduces students to the basic principles and rules of the law of evidence, and also to the types of evidence and their distinctive features. Legal rules of evidence are analysed in light of the trial structure and procedure of law. Both civil and criminal evidence issues are considered. Students will also be taught how to apply the law of evidence in practice.

Pre-requisite: None

### **LAWS3039 LAW, LANGUAGE AND LOGIC**

Law is closely related to both language and logic. First, language is one of law's primary means of communication and logic serves law in the processes of legal reasoning and the interpretation of legal texts. For these reasons, both concepts are of great relevance to the theory and practice of law as it is captured by the relevant concepts of legal semiotics, semantics and forensic linguistics, which will be explained using different case studies. This course highlights the multiple mutual links between law, language and logic for a better understanding of law in a rapidly changing context of a global information society.

Pre-requisite: None

### **LAWS3040 PRIVATE INTERNATIONAL LAW**

This course is devoted to providing a detailed and in-depth analysis of the current conflict rules in China concerning jurisdiction, choice of law and foreign judgments and awards in civil and commercial related disputes, and to carrying out updated case analysis that could discover the judicial practice in the Chinese People's Courts.

Pre-requisite: None

### **LAWS3041 LAW, SCIENCE AND TECHNOLOGY**

With the fast development of information technology and biotechnology, legal and ethical discussion on science and technology is highly appreciated. This course aims to explore how science and technology affect law and how to use laws and regulations to manage and promote the sound development of science and technology. The legal norms on science and technology, as well as the legal issues associated with the research and application of emerging science and technology will be introduced and discussed in class. Meanwhile, the course will explore software and digital tools that are used for carrying out legal research and services.

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Pre-requisite: None

### **LAWS3042 INTELLECTUAL PROPERTY LAW**

Intellectual property (IP) rights have been considered an important way to promote and protect innovations. This course will explore the content and characteristics of IP law from China and global perspectives. Important regimes such as copyright, patent, trademark, anti-unfair competition, and relevant international conventions will be covered in this class. It will also use case studies and group discussions to help students understand how to manage and protect IP rights. Moreover, this course will explore and discuss new issues in IP research and practice, e.g., the gene patent and the copyright of artificial intelligence work, etc.

Pre-requisite: None

### **LAWS3043 LEGAL RESEARCH AND DRAFTING**

Today's information and communication technologies have a serious impact on legal work and the legal professions. A higher frequency of legal amendments plus an ever growing amount of laws of national, regional and global origins require lawyers to avail of outstanding legal research skills in both analogue and digital formats. At the same time, legal drafting skills are also needed to process the data collected through research and to be able to present them in a concise but clear legal writing style.

Pre-requisite: None

### **LAWS3044 COMPARATIVE LAW**

This course introduces students to a scholarly comparison of elements of their own and other jurisdictions. It enables them to compare the operation of law in two or more systems and thereby increase their overall understanding of those legal systems and how the law operates in different cultural, economic, political, social, and linguistic backgrounds.

Pre-requisite: None

### **LAWS3045 LEGAL PRACTICE AND PROFESSIONAL INTERNSHIP**

This course can help students to understand the basic elements of learning and applying to the law: standardization; sociality; logicity; definability; finality; the sense of justice. This course introduces students to the basic skills of public speaking and debate. It examines the functions, elements, types and roles of public speaking. Through lectures and practices, students learn essential skills in writing, speaking and debating that engage a public audience. In addition to the coursework, students have to choose to look for a relevant workplace to perform 100 hours of internship or to attend 10 court trials and prepare a report for any 5 out of the 10 court trials attended to fulfil the internship requirement.

Pre-requisite: None

### **LAWS4040 MARITIME AND SHIPPING LAW**

This course aims to convey to the student the primary knowledge of maritime law and the practice of China. Following the structure of Chinese Maritime law, it covers a wide range of maritime law issues including carriage of good by sea contracts and bill of lading, cargo claims, the liability of carriers, security and limitation of liability, charter parties, maritime safety and navigation, salvage, towage, and general average, multimodal transportation and marine insurance. International legal instruments governing relevant issues and specific national legislation and cases will be comparatively examined. The role of admiralty courts and maritime arbitration mechanisms and relevant enforcement issues will also be briefly introduced.

Pre-requisite: None

### **LAWS4041 FISCAL AND TAXATION LAW**

The purpose of this course is to enable students know the basic concepts and principles of the fiscal and taxation laws, and understand the basic theory system, content, and the latest development of the fiscal and taxation laws, and finally use the knowledge to the corresponding legal practices.

Pre-requisite: None



#### **LAWS4042 INTERNATIONAL ADJUDICATION AND ALTERNATIVE DISPUTE RESOLUTION**

This course is designed to combine the study of dispute resolution through adjudication and alternative dispute resolution in an international context. The course will examine legal issues arising in adjudication of international disputes through international, regional and domestic courts and tribunals. The course will specifically explore the role of international arbitration, arbitral institutions, enforcement of international awards and specialized arbitration. The international law governing mediation or conciliation and enforcement of settlement awards will receive a special focus. Finally, the course will assess emerging issues including online dispute resolution, specific international obligations of states and domestic law harmonization governing international disputes.

Pre-requisite: None

#### **LAWS4043 COMPANY LAW**

The course addresses the establishment, organization and operations of companies in China. It provides students with basic notions and fundamental principles and general rules of corporate entities, delivers the ideas how the law seeks to strike a balance between the interests of various stakeholders and the interests within and outside the company including directors, managers, shareholders, creditors, and the society.

Pre-requisite: None

#### **LAWS4044 PERSONALITY RIGHTS AND CYBERSPACE**

The course will discuss personality rights in two ways. First, personality rights in the traditional civil law: we will discuss Part IV of China's Civil Code "Personality Rights". Second, the personality rights in Cyberspace. The development of internet has radically changed the circumstances of personality rights. In the digital age, the most serious violations of personality rights take place in Cyberspace. This course therefore will discuss the special challenges to personality rights posed by the new information and networking technologies.

Pre-requisite: None

#### **LAWS4045 LEGAL ETHICS**

Legal ethics refers to the ethical norms governing legal professions. This course will introduce students to the body of legal and moral norms and doctrines regulating legal practice in different settings. Its aim is to clearly and vibrantly explain the key topics of professional ethics and issues facing those who are doing legal work, so that they know how to be a good legal professional.

Pre-requisite: None

#### **LAWS4046 LABOUR LAW AND SOCIAL SECURITY**

This course is mainly composed of Chinese labour Law and Chinese social security. The Labour Law lecture follows the logic line from the contracting consultation of labour contracts, the conclusion of labour contracts, the fulfilment of labour contracts, the termination of labour contracts to the sequence after the end of labour contracts. The teaching of Social Security Law centres on insurances of pension, medical care, maternity, work injury and unemployment issues.

Pre-requisite: None

#### **LAWS4047 LAW OF THE ENVIRONMENT AND NATURAL RESOURCES**

The objectives of this course are to help students comprehend the interdisciplinary nature of environmental law; identify environmental law issues and disputes in major legal disciplines; understand the roles of the State, people and the industries in environmental protection and their power, rights and obligations. This course covers a wide variety of legal topics ranging across traditional areas of environmental law, policy and regulation, as well as planning and land-use law, heritage protection, international environmental law, marine environmental law, and natural resources law.

Pre-requisite: None

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#### **LAWS4048 BELT AND ROAD, BRICS COOPERATION AND DEVELOPMENT LAW**

Aiming to explore key legal issues facing Belt and Road (B&R) initiative of China and BRICS cooperation, the course takes a developmental law perspective. First, it assesses how China's trade and investment policy contributes to international developmental goals and BRICS cooperation. It introduces relevant legal standards in BRICS member states and potential implications for the cooperation. To determine the legal environment governing the B&R initiative, the course delineates its scope and the role of relevant investment and free trade agreements. It ends with exploring related legal issues in concession contracts and projects, dispute resolution and involvement of Greater Bay Area.

Pre-requisite: None

#### **LAWS4049 MAJOR LEGAL ISSUES OF THE GREATER BAY AREA**

This course undertakes a comparative approach to the regulation of business in the Greater Bay Area (GBA) and its unique features, including 'One Country, Two Systems', three customs territories and three jurisdictions, resulting in contradiction among legal systems. It first tries to assess possible particularities in the legal and business culture in the GBA and focuses inter alia on the areas of commercial law, corporate law and business transactions, financial services, infrastructure intellectual property, and dispute resolution. The difference among the legal systems is a major source of the long-term obstruction against the full cooperation across the GBA. To this end, the legal systems will be presented and discussed from a comparative perspective. The analysis includes the evaluation of the level of the rule of law in the GBA and its strategic importance in the context of the Belt and Road Initiative and as a platform to boost the trade and investment development in China.

Pre-requisite: None

#### **ELECTIVE COURSES:**

##### **LAWS2025 LAW OF THE EUROPEAN UNION**

This course focuses on the institutional, substantive and procedural dimensions of EU law. This course provides an overview of the treaty reforms, judicial architecture and political structures of the EU, the major fields of EU law, law-making processes, and the relevant case law on free movement, fundamental rights, and Internal Market while focusing on current issues of the EU integration process. The course attaches specific attention to vertical (EU institutions) and horizontal (Member States) dimensions of the EU law.

Pre-requisite: None

##### **LAWS2026 GLOBAL HEALTH GOVERNANCE AND LAW**

Global health influences human life, economic development, and international relations. The role of law in global health governance has gained increasingly attention in recent years. This course will introduce domestic and international public health-related laws and international instruments, and relevant judicial practice. From a global perspective, this course will focus on the exploration of the role of legislation and regulations in promoting the development of global health industry. This course combines public health management and law, aiming to develop students' legal understanding of global disease prevention and control, community health, and health management.

Pre-requisite: None

##### **LAWS2027 GLOBAL IMMIGRATION AND LAW**

This course, focused on global immigration, provides the opportunity to study the key legal issues facing immigration to a foreign territory and international legal protection of rights of migrants. A comparative introduction to immigration law and policy of specific jurisdictions and its regulation of non-immigrant visas is provided. Key legal and procedural issues relating to admission, entry, removal and remedies against removal are covered. Requirements for

seeking temporary or permanent residency, citizenship and nationality in selective states are compared. Finally, the course ends with an examination of criminal law issues, consequences of criminality on global immigration and contemporary legal developments.

Pre-requisite: None

### **LAWS2028 ADVANCED LEGAL PHILOSOPHY**

This course aims to educate students to become legal philosophers by means of developing their ability of engaging with great legal philosophers and their ability of using legal philosophy to solve real and important legal problems. It will have three parts. The first part is to read and discuss great books in modern and contemporary legal philosophy. The second is to discuss major and influential theoretical debates in contemporary legal and moral philosophy, and to discuss the philosophy of different legal areas. The third is to apply legal philosophy to important or new cutting-edge problems facing China and the world.

Pre-requisite: None

### **LAWS2029 TRANSNATIONAL LAW AND THE LAW MERCHANT**

The first part of the course examines transnational private law issues, such as conflicts of laws taking into account the rising role of private actors in creating and implementing legal standards. These actors include multinational corporations, industry associations, non-governmental organisations and adjudicative bodies created by non-state actors. The second part of the course focuses on the body of customary rules and principles related to merchants and commercial transactions constituting *lex mercatoria*.

Pre-requisite: None

### **LAWS2030 COMPARATIVE COMMERCIAL CONTRACTS**

The course focuses on the contract law using a comparative approach by studying EU, American, Asian and African countries' legislation, court jurisprudence and doctrine. The course also covers the general part of the contract law, including conclusion of contract, interpretation, performance, and remedies for breach. The course also aims to enhance students' proficiency in handling the multitude of concepts, doctrines, normative requirements and customary practices in this diversified field of law.

Pre-requisite: None

### **LAWS2031 CROSS BORDER INSOLVENCY LAW**

Insolvency law has been traditionally conceived as a last resort mechanism intended to distribute economic loss and avoid further insolvencies. This legal field started to draw renewed attention with the approval of the 1997 Model Law on Cross-Border Insolvency by UNCITRAL. Later, this UN agency has cooperated with the World Bank to develop the Insolvency and Creditor Rights Standard which works in combination with the World Bank Principles for Effective Insolvency and Creditor/Debtor Regimes, and the 2004 UNCITRAL Legislative Guide on Insolvency Law.

The course will pay attention to the evolution of Cross-Border Insolvency Regimes by examining the history, objectives, policies, and principles behind modern insolvency law.

Pre-requisite: None

### **LAWS2032 INTERNATIONAL AIR AND SPACE LAW**

This course aims to bring together the study of legal regimes governing air and outer spaces. Firstly, international air law will be introduced including its sources, international organizations, the jurisdiction and legal control of different air spaces. Freedoms of the air, air traffic rights, safety and security norms, and liability in air transportation will be examined specifically. Secondly, the course will study the law governing outer space activities including space launches, space tourism, liability for damages and the contemporary legal issues. Finally, the course will introduce the air law and legal issues facing the outer space activities of specific states.

Pre-requisite: None

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### **LAWS2033 INTERNATIONAL TAXATION AND ANTI-MONEY LAUNDERING LAW**

This course studies international taxation and anti-money laundering law. The first part examines legal rules determining tax residency, tax liability, taxing rights and jurisdiction. It explores the principles of international taxation, regulation of transfer pricing, emergence of tax havens, inclusive framework on base erosion and profit shifting (BEPS) and standards of double taxation treaties. The second part explores the nexus between tax crimes and money laundering by studying the principles and standards of anti-money laundering regimes and the role of Financial Action Task Force. It ends by analysing contemporary developments in both fields and its manifestation in domestic context.

Pre-requisite: None

### **LAWS2034 GLOBAL RISK MANAGEMENT AND INSURANCE LAW**

This course is an introduction to fundamental global risk management and insurance law principles as essential components of global business operations and personal risk management. Topics include risk identification, risk analysis, global risk exposures, insurance legal principles, loss prevention, and safety concepts, and the social and economic relevance of risk management and insurance law.

Pre-requisite: None

### **LAWS2035 COMPARATIVE COMPANY LAW**

The course is based on earlier acquired knowledge and competencies concerning company law, and introduces differences and similarities between various company law systems. It discusses corporate governance solutions developed by different jurisdictions and legal traditions, and explain instances of divergence or convergence of the legal rules that can be observed. The course identifies general trends and trajectories in development of corporate governance by examining advanced cases on a comparative and interdisciplinary basis.

Pre-requisite: None

### **LAWS2036 LAW OF SECURITIES AND NEGOTIABLE INSTRUMENTS**

The main purpose of this course is to make students understand the basic concepts, theoretical knowledge and legal provisions involved in the securities law and provide students with clear clues to the issuance and trading process of securities and help them understand the institutions involved.

Pre-requisite: None

### **LAWS2037 COMPETITION LAW (CONSUMER PROTECTION AND INNOVATION)**

The course focuses on the fundamental principles and general rules of competition law in China, with extensive use of the case studies. It covers unilateral and collusive anti-competitive practices and acts of unfair competition. The course also includes closely related issues of consumer protection and innovation. The study of competition law will also involve other subjects, such as civil liability law and economics of industrial organization.

Pre-requisite: None

### **LAWS2038 TRUST LAW**

This course will focus on the theories of trust law, aiming at enabling students to understand the whole process of trusts from establishment to termination. The course mainly includes the following topics: Establishment of Trust; Property of Trusts; Parties to the Trust and Public trust.

Pre-requisite: None

### **LAWS2039 LEGAL CLINIC**

In this course, the students will through handling hypothetical cases under the supervision of the course coordinator develop lawyering skills such as interviewing, negotiation, communication, facts investigation, legal research and analysis, applying the legal theories and principles to the real client case or situation, legal writing and drafting, as well as professional ethics and responsibilities.

Pre-requisite: None

**LAWS2040 E-COMMERCE AND INFORMATION TECHNOLOGY LAW**

With the growing scale of global e-commerce, relevant legislation has been developed to regulate e-business and deal with legal disputes on e-commerce and information technology. This course will introduce fundamental theories of e-commerce and information technology law, explore distinct norms in different jurisdictions, and exam how to protect the rights of different subjects in e-commerce activities, etc. The course includes case studies and discussions on emerging legal issues associated with the use of new information technology.

Pre-requisite: None

**LAWS2041 LAW OF LEGISLATION**

This course will discuss the China's system of legislation, the allocation of legislative powers, the procedure of law-making, and the hierarchy of validity of different legal norms, etc. Its chief aim is to teach students how to find applicable laws for different cases and situations, and how to correctly apply laws to different cases and situations.

Pre-requisite: None

## **Doctoral Degree Programmes**

### AREAS OF STUDY

- Civil Engineering
- Computer Science
- Electrical and Computer Engineering
- Electromechanical Engineering
- Mathematics

FACULTY OF SCIENCE AND TECHNOLOGY

# Doctoral Degree Programmes

## Doctor of Philosophy

- Civil Engineering

	Credits
<b>Compulsory Courses:</b>	
<b>Faculty-wide Compulsory Courses:</b>	
STGC8002 Research Writing	1
STGC8003 Research Methods and Ethics	3
<b>Department-wide Compulsory Courses:</b>	
CIVL8001 Advanced Topics in Civil Engineering	3
CIVL8999 Doctoral Thesis	18
<b>Other Courses:</b>	
<b>For students admitted without a relevant Master's degree:</b>	
5 Required Electives selected from existing compulsory and elective courses of Master's degree programmes in Civil Engineering	15
<b>Grand Total:</b>	<b>40</b>

# Doctoral Degree Programmes

## Doctor of Philosophy

- Computer Science

	Credits
<b>Compulsory Courses:</b>	
<b>Faculty-wide Compulsory Courses:</b>	
STGC8002     Research Writing	1
STGC8003     Research Methods and Ethics	3
<b>Department-wide Compulsory Courses:</b>	
CISC8001     Advanced Topics in Computer Science	3
CISC8999     Doctoral Thesis	18
<b>Other Courses:</b>	
<b>For students admitted without a relevant Master's degree:</b>	
5 Required Electives from the List of Required Electives in Master's degree programme in Computer Science or E-commerce Technology	15
<b>Grand Total:</b>	<b>40</b>



FACULTY OF SCIENCE AND TECHNOLOGY

# Doctoral Degree Programmes

## Doctor of Philosophy

- Electrical and Computer Engineering

	Credits
<b>Compulsory Courses:</b>	
<b>Faculty-wide Compulsory Courses:</b>	
STGC8002 Research Writing	1
STGC8003 Research Methods and Ethics	3
<b>Department-wide Compulsory Courses:</b>	
ECEN8001 Advanced Topics in Electrical and Computer Engineering	3
ECEN8999 Doctoral Thesis	18
<b>Other Courses:</b>	
<b>For students admitted without a relevant Master's degree:</b>	
5 Required Electives from the List of Required Electives in Master's degree programme in Electrical and Computer Engineering	15
<b>Grand Total:</b>	<b>40</b>

## Doctoral Degree Programmes

### Doctor of Philosophy

- Electromechanical Engineering

		Credits
<b>Compulsory Courses:</b>		
<b>Faculty-wide Compulsory Courses:</b>		
STGC8002	Research Writing	1
STGC8003	Research Methods and Ethics	3
<b>Department-wide Compulsory Courses:</b>		
EMEN8001	Advanced Topics in Electromechanical Engineering	3
EMEN8999	Doctoral Thesis	18
<b>Other Courses:</b>		
<b>For students admitted without a relevant Master's degree:</b>		
5 Required Electives from the List of Required Electives in Master's degree programme in Electromechanical Engineering		15
<b>Grand Total:</b>		<b>40</b>

FACULTY OF SCIENCE AND TECHNOLOGY

# Doctoral Degree Programmes

## Doctor of Philosophy

- Mathematics

		Credits
<b>Compulsory Courses:</b>		
<b>Faculty-wide Compulsory Courses:</b>		
STGC8002	Research Writing	1
STGC8003	Research Methods and Ethics	3
<b>Department-wide Compulsory Courses:</b>		
MATH8001	Advanced Topics in Mathematics	3
MATH8999	Doctoral Thesis	18
<b>Other Courses:</b>		
<b>For students admitted without a relevant Master's degree:</b>		
5 Required Electives from the List of Required Electives in Master's degree programme in Mathematics		15
<b>Grand Total:</b>		<b>40</b>

# Master's Degree Programmes

## Master of Science

- Artificial Intelligence

		Credits
<b>Compulsory Courses:</b>		
CISC7026	Introduction to Deep Learning	3
CISC7401	Advanced Machine Learning	3
CISC7402	Mathematics for Artificial Intelligence	3
CISC7498	Project Report	6
<b>Required Electives:</b>		
5 Required Electives from Table I		15
<b>Grand Total:</b>		<b>30</b>

### Table I: List of Required Electives

CISC7013	Principles of Artificial Intelligence	3
CISC7018	Computer Vision and Pattern Recognition	3
CISC7019	Web Mining	3
CISC7021	Applied Natural Language Processing	3
CISC7403	Cloud and Distributed Systems	3
CISC7404	Special Topics in Artificial Intelligence	3
EMEN7101	Introduction to Mobile Robotics	3

## FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

- Civil Engineering

	Credits
<b>Compulsory Courses:</b>	
CIVL7998 Project Report	6
<b>Required Electives:</b>	
2 Required Electives chosen from Table I	6
6 Required Electives chosen from Table I and II*	18
<b>Grand Total:</b>	<b>30</b>
OR	
<b>Compulsory Courses:</b>	
CIVL7997 Internship and Report	3
<b>Required Electives:</b>	
2 Required Electives chosen from Table I	6
7 Required Electives chosen from Table I and II*	21
<b>Grand Total:</b>	<b>30</b>

\* The 2 chosen Required Electives from Table I stated in the first requirement cannot count towards the 6 / 7 Required Electives stated in the second requirement.

### List of Required Electives (Table I)

CIVL7001	Advanced Mathematics	3
CIVL7002	Theory of Elasticity and Plasticity	3
CIVL7003	Finite Element Method	3
CIVL7029	Hydrodynamics and Floods	3

### List of Required Electives (Table II)

CIVL7004	Advanced Soil Mechanics	3
CIVL7005	Subsurface Investigation and Soil Testing	3
CIVL7006	Advanced Foundation Engineering	3
CIVL7007	Soil Dynamics	3
CIVL7008	Structural Design of Foundations	3
CIVL7009	Special Topics in Geotechnical Engineering II	3
CIVL7010	Structural Vibrations	3
CIVL7011	Plates and Shells	3
CIVL7012	Structural Analysis and Finite Elements	3
CIVL7013	Special Topics in Structural Engineering III	3

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CIVL7014	Numerical Modeling in Geomechanics	3
CIVL7015	Random Vibrations of Structures	3
CIVL7016	Behavior and Design of Steel Members	3
CIVL7017	Ground Improvement Techniques	3
CIVL7018	Slope Stability and Earth Retaining Structures	3
CIVL7019	Special Topics in Geotechnical Engineering I	3
CIVL7020	Special Topics in Structural Engineering I	3
CIVL7021	Special Topics in Structural Engineering II	3
CIVL7022	Advanced Computational Methods: Principles and Applications	3
CIVL7023	Construction Financial Management	3
CIVL7024	Fracture Mechanics and Fatigue	3
CIVL7025	Reliability Analysis in Civil Engineering	3
CIVL7026	Instrumentation Systems in Civil Engineering	3
CIVL7027	Constitutive Modeling in Soil Mechanics	3
CIVL7028	Analysis and Design of Reinforced Concrete Members	3
CIVL7030	Coastal Fluid Mechanics and Storm Surge	3
CIVL7031	Sediment Transport and Erosion	3
CIVL7032	Municipal Solid Waste Management	3
CIVL7033	Environmental Chemistry	3
CIVL7034	Coastal Water Treatment: Principles and Processes	3
CIVL7035	Water Pollution Control: Physical and Chemical Modeling	3
CIVL7036	Environmental Assessment and Planning: Computer Modeling	3
CIVL7037	Air Pollution Control	3
CIVL7038	Special Topics in Environmental Engineering IV	3
CIVL7039	Air Pollution Meteorology and Chemistry	3
CIVL7040	Special Topics in Environmental Engineering I	3
CIVL7041	Special Topics in Environmental Engineering II	3
CIVL7042	Special Topics in Environmental Engineering III	3
CIVL7043	Quantitative Methods for Construction Decision Making	3
CIVL7044	Quality and Safety Management in Construction	3

FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

- **Civil Engineering with Specialization in Hydraulics and Environmental Engineering**

	<b>Credits</b>
<b>Compulsory Courses:</b>	
CIVL7001    Advanced Mathematics	3
CIVL7029    Hydrodynamics	3
CIVL7999    Academic Thesis*	6
<b>Required Electives:</b>	
6 Required Electives chosen from the List of Required Electives	18
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
CIVL7001    Advanced Mathematics	3
CIVL7029    Hydrodynamics and Floods	3
CIVL7996    Applied Thesis*	3
<b>Required Electives:</b>	
7 Required Electives chosen from the List of Required Electives	21
<b>Grand Total:</b>	<b>30</b>

\*Academic thesis based programme targets all MSc students, while applied thesis based programme targets all MSc students except for studentship/assistantship holders.

### List of Required Electives for MSc in Civil Engineering (Hydraulics and Environmental Engineering)

CIVL7003    Finite Element Method	3
CIVL7023    Construction Financial Management	3
CIVL7030    Coastal Fluid Mechanics and Storm Surge	3
CIVL7031    Sediment Transport and Erosion	3
CIVL7032    Municipal Solid Waste Management	3
CIVL7033    Environmental Chemistry	3
CIVL7034    Coastal Water Treatment: Principles and Processes	3
CIVL7035    Water Pollution Control: Physical and Chemical Modeling	3
CIVL7036    Environmental Assessment and Planning: Computer Modeling	3
CIVL7037    Air Pollution Control	3
CIVL7038    Special Topics in Environmental Engineering IV	3
CIVL7039    Air Pollution Meteorology and Chemistry	3

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CIVL7040	Special Topics in Environmental Engineering I	3
CIVL7041	Special Topics in Environmental Engineering II	3
CIVL7042	Special Topics in Environmental Engineering III	3
CIVL7043	Quantitative Methods for Construction Decision Making	3
CIVL7044	Quality and Safety Management in Construction	3



FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

- Coastal Environment and Safety

	Credits
<b>Compulsory Courses:</b>	
CIVL7101 Introduction to Oceanography	3
CIVL7029 Hydrodynamics and Floods	3
CIVL7034 Coastal Water Treatment Principles and Processes	3
CIVL7198 Project Report	6
<b>Required Electives:</b>	
5 Required Electives chosen from the List of Required Electives	15
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
CIVL7101 Introduction to Oceanography	3
CIVL7029 Hydrodynamics and Floods	3
CIVL7034 Coastal Water and Wastewater Treatment Principles and Processes	3
CIVL7197 Internship and Report	3
<b>Required Electives:</b>	
6 Required Electives chosen from the List of Required Electives	18
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Coastal Environment and Safety

CIVL7102 Marine Ecology	3
CIVL7103 Aquatic Chemistry	3
CIVL7104 Atmospheric Chemistry	3
CIVL7105 Coastal Pollution: Sources, Fate and Effects of Pollutants	3
CIVL7106 Special Topics in Hazard Alleviation	3
CIVL7107 Special Topics in Coastal Environment	3
CIVL7018 Landslides Mechanisms, Mitigation and Risk Assessment	3
CIVL7022 Advanced Computational Methods: Principles and Applications	3
CIVL7030 Coastal Fluid Mechanics and Storm Surge	3
CIVL7031 Sediment Transport and Erosion	3

# Master's Degree Programmes

## Master of Science

### • Computer Science

		Credits
<b>Compulsory Courses:</b>		
CISC7005	Computer Science Seminar	3
CISC7999	Academic Thesis*	6
<b>Required Electives:</b>		
7 Required Electives chosen from the List of Required Electives except CISC7005		21
<b>Grand Total:</b>		<b>30</b>

OR

<b>Compulsory Courses:</b>		
CISC7001	Fundamentals of Software Engineering	3
CISC7996	Applied Thesis*	3
<b>Required Electives:</b>		
8 Required Electives chosen from the List of Required Electives except CISC7001		24
<b>Grand Total:</b>		<b>30</b>

\*Academic thesis based programme targets all MSc students, while applied thesis based programme targets all MSc students except for studentship/assistantship holders.

### List of Required Electives for MSc in Computer Science

CISC7001	Fundamentals of Software Engineering	3
CISC7002	Computer Communications and Networks	3
CISC7004	Current Development in Database	3
CISC7005	Computer Science Seminar	3
CISC7006	Compiler Construction	3
CISC7007	Design and Analysis of Algorithms	3
CISC7008	Complexity Theory	3
CISC7009	Formal Methods in Software Engineering	3
CISC7010	Discrete System Simulation	3
CISC7011	Computer System Performance Modeling	3
CISC7012	Computer Graphics - Principles and Systems	3
CISC7013	Principles of Applications of Artificial Intelligence	3
CISC7014	Advanced Topics in Computer Science	3
CISC7015	Advanced Topics in Computer Science I	3
CISC7016	Advanced Topics in Computer Science II	3
CISC7017	Principles and Applications of Concurrent Programming	3

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CISC7018	Computer Vision and Pattern Recognition	3
CISC7019	Web Mining	3
CISC7020	Distributed Computer	3
CISC7021	Applied Natural Language Processing	3
CISC7022	Big Data Processing and Analysis	3
CISC7023	Introduction to Business Process Management	3

# Master's Degree Programmes

## Master of Science

### • Construction Project Management

	<b>Credits</b>
<b>Compulsory Courses:</b>	
CIVL7201 Construction Project Management Theory and Practice	3
CIVL7202 Contract Management	3
CIVL7203 Advanced Construction Planning and Scheduling	3
CIVL7204 Building Information Modeling (BIM): Development and Application	3
CIVL7298 Project Report	6
<b>Required Electives:</b>	
4 Required Electives chosen from the List of Required Electives	12
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
CIVL7201 Construction Project Management Theory and Practice	3
CIVL7202 Contract Management	3
CIVL7203 Advanced Construction Planning and Scheduling	3
CIVL7204 Building Information Modeling (BIM): Development and Application	3
CIVL7297 Internship and Report	3
<b>Required Electives:</b>	
5 Required Electives chosen from the List of Required Electives	15
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Construction Project Management

CIVL7023 Construction Financial Management	3
CIVL7043 Quantitative Methods for Construction Decision Making	3
CIVL7044 Quality and Safety Management in Construction	3
CIVL7205 Construction Cost Management	3
CIVL7206 Innovative Methods and Applications of Information Technology in Construction	3
CIVL7207 Sustainability in Construction	3
CIVL7208 Special Topics in Construction Project Management	3

## FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

### • Electrical and Computer Engineering

		Credits
<b>Compulsory Courses:</b>		
ECEN7002	Advanced Mathematics	3
ECEN7998	Project Report	6
<b>Required Electives:</b>		
7 Required Electives chosen from the List of Required Electives		21
<b>Grand Total:</b>		<b>30</b>
OR		
<b>Compulsory Courses:</b>		
ECEN7002	Advanced Mathematics	3
ECEN7997	Internship and Report*	3
<b>Required Electives:</b>		
8 Required Electives chosen from the List of Required Electives		24
<b>Grand Total:</b>		<b>30</b>

\*\*The number of hours for Internship is 720.

### List of Required Electives for MSc in Electrical and Computer Engineering

CISC7002	Computer Communications and Networks	3
CISC7102	Computer Networks and Internet	3
CISC7109	Internet Security and Cryptography	3
CISC7110	Electronic Payment Systems	3
CISC7111	Smart Card Technology & Applications	3
ECEN7003	Microelectronic Circuit Design	3
ECEN7004	Digital Signal Processing	3
ECEN7005	Active Network Theory	3
ECEN7006	Advanced Topics in Control Systems	3
ECEN7007	Advanced Topics in Simulation	3
ECEN7008	Expert Systems	3
ECEN7009	Microelectronics for Telecommunication and Signal Processing	3
ECEN7010	Laser and Semiconductor Physics	3
ECEN7011	Advanced Topics in Telecommunications	3
ECEN7018	Flexible Alternative Current Transmission System	3
ECEN7019	Embedded System	3
ECEN7020	Advanced Topics in Analog and Mixed-Signal Integrated Circuits	3

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ECEN7021	Biomedical Transducers and Instruments	3
ECEN7022	Electrochemical Energy Conversion and Storage	3
ECEN7023	Special Topics in Biomedical Engineering	3
ECEN7024	Medical Imaging Systems	3
ECEN7025	Modeling and Theoretical Analysis for Communication Systems	3

## FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

### • Electromechanical Engineering

	Credits
<b>Compulsory Courses:</b>	
EMEN7037 Advanced Mathematics for Electromechanical Engineering	3
EMEN7998 Project Report	6
<b>Required Electives:</b>	
7 Required Electives chosen from the List of Required Electives	21
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
EMEN7037 Advanced Mathematics for Electromechanical Engineering	3
EMEN7997 Internship and Report	3
<b>Required Electives:</b>	
8 Required Electives chosen from the List of Required Electives	24
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Electromechanical Engineering

EMEN7002	Physics of Materials	3
EMEN7003	Variational Principles and the Application	3
EMEN7006	Mechatronics	3
EMEN7007	Process Heat Transfer	3
EMEN7008	Convective Heat Transfer	3
EMEN7009	Computational Method for Thermo-Fluid System	3
EMEN7010	Energy Conversion and Utilization	3
EMEN7011	Advanced Robotics and Control	3
EMEN7014	Fluid Power Engineering	3
EMEN7017	Special Topics in Manufacturing I	3
EMEN7018	Special Topics in Manufacturing II	3
EMEN7019	Special Topics in Thermal Engineering I	3
EMEN7020	Special Topics in Thermal Engineering II	3
EMEN7021	Automotive Engineering	3
EMEN7022	Failure Analysis in Mechanical Engineering	3
EMEN7023	Advanced Electrical Services	3
EMEN7024	Advanced Electromechanical Energy Conversion	3
EMEN7025	Human Factors Engineering	3
EMEN7027	Engineering Acoustics	3
EMEN7028	Advanced Electric Vehicles	3
EMEN7029	Special Topic in Electromechanical Engineering I	3

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EMEN7030	Special Topic in Electromechanical Engineering II	3
EMEN7031	Micromechatronics and Applications	3
EMEN7032	Intelligent Theory and Engineering Applications	3
EMEN7033	Industrial Engineering and Engineering Management	3
EMEN7034	Theories and Practice of CAD/CAM/CAE	3
EMEN7035	Product Design and Management	3
EMEN7036	Modeling and Analysis of Production Systems	3
EMEN7038	Mechanical Processing of Materials	3
EMEN7039	Prognostics and Health Management of Engineering Systems	3



## FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

### • Financial Technology

		Credits
<b>Compulsory Courses:</b>		
CISC7107	Data Mining and Decision Support System	3
CISC7110	Electronic Payment Systems	3
CISC7301	Introduction to Financial Technologies (FinTech)	3
CISC7398	Project Report	6
<b>Required Electives:</b>		
2 Required Electives from Table I		6
3 Required Electives from Table II		9
<b>Grand Total:</b>		<b>30</b>

OR

<b>Compulsory Courses:</b>		
CISC7107	Data Mining and Decision Support Systems	3
CISC7110	Electronic Payment Systems	3
CISC7310	Introduction to Financial Technologies (FinTech)	3
CISC7397	Internship and Report	3
<b>Required Electives:</b>		
2 Required Electives from Table I		6
4 Required Electives from Table II		12
<b>Grand Total:</b>		<b>30</b>

#### Table I: Required Electives from Financial, Economics, Accounting

BECO7010	Statistics and Financial Economics	3
CISC7112	Legal Issues of IT and E-Commerce	3
FINC7010	Corporate Finance	3
FINC7024	Investments and Portfolio Management	3
FINC7035	Financial Risk Management	3

#### Table II: Required Electives from Information Technologies

CISC7004	Current Development in Database	3
CISC7013	Principles of Artificial Intelligence	3
CISC7021	Applied Natural Language Processing	3
CISC7022	Big Data Processing and Analysis	3
CISC7101	Information Systems Development Methodologies	3
CISC7106	Data Warehousing	3
CISC7109	Internet Security and Cryptography	3

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CISC7111	Smart Card Technology and Applications	3
CISC7116	Fundamentals of Business Process Management	3
CISC7302	Algo Trading and High Frequency Trading	3
CISC7303	Cloud Computing	3

## FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

### • Internet of Things

	Credits
<b>Compulsory Courses:</b>	
ECEN7101 Introduction to Internet of Things	3
ECEN7102 Advanced Topics in Applied Probability and Statistics	3
ECEN7198 Project Report	6
<b>Required Electives:</b>	
6 Required Electives chosen from the List of Required Electives of which students are required to take at least 1 course from each of the Group 1, 2 and 3	18
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
ECEN7101 Introduction to Internet of Things	3
ECEN7102 Advanced Topics in Applied Probability and Statistics	3
ECEN7197 Internship and Report*	3
<b>Required Electives:</b>	
7 Required Electives chosen from the List of Required Electives of which students are required to take at least 1 course from each of the Group 1, 2 and 3	21
<b>Grand Total:</b>	<b>30</b>

\*The number of hours for Internship is 720.

### List of Required Electives for MSc in Internet of Things

<b>Group 1:</b>	
ECEN7103 RFID Principle and Applications	3
ECEN7104 Advanced Integrated Circuit Design for Internet of Things	3
ECEN7105 Embedded Systems for Internet of Things Applications	3
<b>Group 2:</b>	
CISC7102 Computer Networks and Internet	3
ECEN7011 Advanced Topics in Telecommunications	3
ECEN7025 Modeling and Theoretical Analysis for Communications Systems	3
ECEN7108 Advanced Topics in Internet of Things	3
<b>Group 3:</b>	
CISC7013 Principles of Artificial Intelligence	3

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CISC7022	Big Data Processing and Analysis	3
CISC7107	Data Mining and Decision Support Systems	3
CISC7109	Internet Security and Cryptography	3
CISC7303	Cloud Computing	3
ECEN7106	Convex Optimization for Internet of Things Applications	3
ECEN7107	Data Analysis for Internet of Things	3

FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

- **Mathematics**

	<b>Credits</b>
<b>Compulsory Courses:</b>	
MATH7001 Functional Analysis	3
MATH7002 Real Analysis	3
MATH7998 Project Report	6
<b>Required Electives:</b>	
6 Required Electives chosen from the List of Required Electives	18
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Mathematics

MATH7003	Advanced Numerical Linear Algebra	3
MATH7004	Advanced Probability and Statistics	3
MATH7005	Clifford Analysis	3
MATH7006	Geometry and its Applications	3
MATH7007	Mathematical Theory of Computational Intelligence	3
MATH7008	Matrix Analysis	3
MATH7009	Numerical Methods for Differential Equations	3
MATH7010	Partial Differential Equations	3
MATH7011	Reading Course I	3
MATH7012	Reading Course II	3
MATH7013	Stochastic Differential Equations	3
MATH7014	Stochastic Processes	3
MATH7015	Time Series Analysis	3
MATH7016	Topics in Analysis	3
MATH7017	Topics in Geometry	3
MATH7018	Topics in Matrix Analysis	3
MATH7019	Topics in Partial Differential Equations	3
MATH7020	Topics in Probability and Statistics	3
MATH7021	Financial Mathematics	3

# Master's Degree Programmes

## Master of Science

- Robotics and Autonomous Systems

	Credits
<b>Compulsory Courses:</b>	
EMEN7101 Introduction to Mobile Robotics	3
EMEN7102 Introduction to Sensors and Actuators	3
EMEN7198 Project Report	6
<b>Required Electives:</b>	
4 Required Electives chosen from Group 1 in the List of Required Electives	12
2 Required Electives chosen from Group 2 in the List of Required Electives	6
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Robotics and Autonomous Systems

#### Group 1:

ECEN7019	Embedded System	3
EMEN7011	Advanced Robotics and Control	3
EMEN7032	Intelligent Theory and Engineering Applications	3
EMEN7103	Aerial Robotics	3
EMEN7104	Special Topics in Robotics	3
EMEN7105	Special Topics in Autonomous Systems	3

#### Group 2:

CISC7201	Introduction to Data Science Programming	3
CISC7202	Tools for Machine Learning	3
ECEN7101	Introduction to Internet of Things	3
EMEN7039	Prognostics and Health Management of Engineering Systems	3

FACULTY OF SCIENCE AND TECHNOLOGY

# Master's Degree Programmes

## Master of Science

- Smart Ocean Technology

	<b>Credits</b>
<b>Compulsory Courses:</b>	
CISC7203 Database and Data Mining Technologies	3
CIVL7101 Introduction to Oceanography	3
OCE7001 Ocean Remote Sensing	3
OCE7002 Physical Oceanography	3
OCE7198 Project Report	6
<b>Required Electives:</b>	
4 Required Electives chosen from the List of Required Electives	12
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
CISC7203 Database and Data Mining Technologies	3
CIVL7101 Introduction to Oceanography	3
OCE7001 Ocean Remote Sensing	3
OCE7002 Physical Oceanography	3
OCE7197 Internship and Report	3
<b>Required Electives:</b>	
5 Required Electives chosen from the List of Required Electives	15
<b>Grand Total:</b>	<b>30</b>

### List of Required Electives for MSc in Smart Ocean Technology

CISC7303 Cloud Computing	3
OCE7003 Ocean Acoustics	3
OCE7004 Ocean Sensors	3
OCE7005 Marine Robotics and Application	3
OCE7006 Special Topics in Ocean Observation and Modeling	3
OCE7007 Special Topics in Underwater Communication and Networks	3
OCE7008 Machine Learning and Applications in Ocean Science	3

# Bachelor's Degree Programmes

## Bachelor of Science

### • Applied Physics and Chemistry

Year I	Credits
APAC1000 Advanced Mathematics I	3
APAC1001 College Physics	3
APAC1002 Electromagnetism and Physical Optics	3
APAC1003 Introduction to College Chemistry	3
APAC2000 Advanced Mathematics II	3
Community and Peer Education Courses	2
Languages and Skills Courses	9
General Education Courses:	
GELH1000 Chinese Language and Culture	3
GEST1004 Quantitative Reasoning for Science and Technology	3
1 course from area of Science and Technology	3
<b>Total Credits:</b>	<b>35</b>

Year II	Credits
APAC2001 Analytical and Environmental Chemistry	3
APAC2002 Modern Physics	3
APAC2003 Inorganic Chemistry	3
APAC2004 Quantum Physics	3
APAC2006 Organic Chemistry: Foundations of Chemical Reactivity and Synthesis	3
APAC4004 Mathematical Methods in Physics	3
CISC1001 Programming Science	3
1 Required Elective	3
Community and Peer Education Courses	1
Languages and Skills Courses	6
General Education Courses:	
GEA1000 Macao and Chinese Civilization	3
GESB1000 Ethics, Values, Law and Society	3
1 Free Elective	3
<b>Total Credits:</b>	<b>40</b>



<b>Year III</b>		<b>Credits</b>
APAC3000	Materials Physics and Chemistry	3
APAC3001	Solid State Physics	3
APAC3002	Thermodynamics and Statistical Physics	3
APAC3003	Materials Characterization	3
APAC3004	Optoelectronics	3
APAC3005	Physical Chemistry	3
APAC3006	Semiconductor Physics	3
General Education Courses:		
2 General Education Courses		6
1 Free Elective		3
<b>Total Credits:</b>		<b>30</b>

<b>Year IV</b>		<b>Credits</b>
APAC4000	Research Project	6
4 Required Electives		12
General Education Courses:		
1 General Education Course		3
1 Free Elective		3
<b>Total Credits:</b>		<b>24</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>129</b>

#### **List of Required Electives**

APAC3007	Low-Dimensional Physics	3
APAC3008	Nanochemistry	3
APAC3009	Polymer Chemistry	3
APAC3010	Thin Film Physics	3
APAC4001	Electrochemistry	3
APAC4002	Electrodynamics	3
APAC4003	Magnetic Properties of Materials	3
APAC4005	Micro-/Nano-Systems	3
APAC4007	Semiconductor Materials and Devices	3
APAC4008	Supramolecular Chemistry	3
APAC4009	Theory and Modeling of Materials Properties	3
APAC4010	Topics in Emerging Materials	3
CISC1006	Probability and Statistics	3

# Bachelor's Degree Programmes

## Bachelor of Science

### • Civil Engineering

Year I		Credits
CIVL1000	Computer Science	3
CIVL1001	Introduction to Civil and Environmental Engineering	2
CIVL1003	Statics	3
CIVL1004	Engineering Geology	3
ECEN1008	Physics I	3
ECEN1010	Physics II	3
MATH1003	Intermediate Calculus	3
Community and Peer Education Courses		2
Languages and Skills Courses		9
General Education Courses:		
GEGA1000	Macao and Chinese Civilization	3
GELH1000	Chinese Language and Culture	3
GESB1000	Ethics, Values, Law and Society	3
GEST1004	Quantitative Reasoning for Science and Technology	3
<b>Total Credits:</b>		<b>43</b>

Year II		Credits
CIVL1002	Civil Engineering Drawing	2
CIVL2000	Kinematics and Dynamics	3
CIVL2001	Mechanics of Materials	3
CIVL2002	Surveying	2
CIVL2003	Fluid Mechanics	3
CIVL2004	Mathematics for Civil Engineering	3
CIVL2005	Construction Materials	3
CIVL2006	Structural Analysis	3
CIVL2007	Soil Mechanics	3
MATH2000	Engineering Mathematics I	3
MATH2001	Engineering Mathematics II	3
STGC1001	General Chemistry	3
Community and Peer Education Courses		1
Languages and Skills Courses		3
<b>Total Credits:</b>		<b>38</b>

<b>Year III</b>		<b>Credits</b>
CIVL3000	Steel Design	3
CIVL3001	Construction Management and Practice	3
CIVL3002	Environmental Engineering I	3
CIVL3003	Environmental Engineering II	3
CIVL3004	Reinforced Concrete Design	3
CIVL3005	Foundation Engineering	3
4 Required Electives from the List of Required Electives		12
Languages and Skills Courses		3
General Education Course:		
GEA1000	Macao and Chinese Civilization	3
<b>Total Credits:</b>		<b>36</b>

<b>Year IV</b>		<b>Credits</b>
CIVL4000	Graduation Project I	3
CIVL4001	Graduation Project II	3
CIVL4002	Integrated Project Design	3
STGC3000	Work-Integrated Education	3
3 Required Electives from the List of Required Electives		9
General Education Courses:		
1 course from area of Literature and Humanities		3
1 course from area of Society and Behaviour		3
1 course from area of Global Awareness		3
<b>Total Credits:</b>		<b>30</b>

<b>Grand Total:</b>	<b>Credits</b>
	<b>147</b>

#### **List of Required Electives**

CIVL3006	Civil Engineering Hydraulics	3
CIVL3007	Advanced Topics in Soil Mechanics	3
CIVL3008	Environmental Modeling	3
CIVL4004	Advanced Mechanics of Materials	3
CIVL4005	Advanced Structural Analysis	3
CIVL4006	Structural Vibrations	3
CIVL4007	Advanced Reinforced Concrete Design	3
CIVL4008	Structural Systems and Analysis	3
CIVL4009	Selected Topics in Geotechnical Engineering	3
CIVL4010	Earth Retaining Systems	3
CIVL4011	Application of Numerical Methods in Geotechnical Engineering	3
CIVL4012	Introduction to Soil Improvement	3
CIVL4013	Engineering Economics and Ethics	3
CIVL4014	Construction Planning, Scheduling and Control	3

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CIVL4015	Construction Methods, Procedure and Equipment	3
CIVL4016	Environmental Engineering III	3
CIVL4017	Essentials to Environmental Biotechnology	3
CIVL4018	Wastewater Treatment Engineering	3
CIVL4019	Traffic Engineering	3
CIVL4020	Transportation Planning and Public Transport System	3
CIVL4021	Special Topics in Civil Engineering	3

## FACULTY OF SCIENCE AND TECHNOLOGY

# Bachelor's Degree Programmes

## Bachelor of Science

### • Computer Science

Year I	Credits
CISC1001 Programming Science	3
CISC1004 Introduction to Computer Science	3
CISC1006 Probability and Statistics	3
MATH1003 Intermediate Calculus	3
Community and Peer Education Courses	2
Languages and Skills Courses	12
General Education Courses:	
GELH1000 Chinese Language and Culture	3
GEST1004 Quantitative Reasoning for Science and Technology	3
1 course from area of Science and Technology	3
<b>Total Credits:</b>	<b>35</b>

Year II	Credits
CISC1002 Discrete Structures	3
CISC2001 Computer Organization	3
CISC2002 Numerical Methods and Computation	3
CISC2003 Object Oriented Programming and Data Structures	3
CISC2005 Principles of Operating Systems	3
CISC2006 Algorithm Design and Analysis	3
MATH1001 Linear Algebra I	3
Community and Peer Education Courses	1
Languages and Skills Courses	3
General Education Courses:	
GEA1000 Macao and Chinese Civilization	3
1 course from area of Science and Technology	3
1 course from area of Literature and Humanities	3
<b>Total Credits:</b>	<b>34</b>

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<b>Year III</b>		<b>Credits</b>
CISC3000	Introduction to Database Systems	3
CISC3001	Computer Networks	3
CISC3026	Software Engineering Principles	3
CISC3002	Mobile Application Programming or	3
CISC3003	Web Programming	
4 Required Electives		12
General Education Courses:		
1 course from area of Global Awareness		3
1 course from area of Society and Behaviour		3
1 Free Elective		3
<b>Total Credits:</b>		<b>33</b>

<b>Year IV</b>		<b>Credits</b>
CISC4000	Graduation Project	6
CISC4001	Professionalism and Ethics in Computer Science	3
STGC3000	Work-Integrated Education	3
3 Required Electives		9
2 Free Electives		6
<b>Total Credits:</b>		<b>27</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>129</b>

#### **List of Required Electives\***

##### **Stream A: Data Science and Artificial Intelligence**

CISC3005	Advanced Database Systems	3
CISC3012	Artificial Intelligence	3
CISC3014	Information Retrieval and Web Search	3
CISC3018	Cloud Computing and Big Data Systems	3
CISC3023	Machine Learning	3
CISC3024	Pattern Recognition	3
CISC3025	Natural Language Processing	3

##### **Stream B: Multimedia Computing**

CISC3009	Computer Graphics	3
CISC3011	Digital Image Processing	3
CISC3016	Multimedia Computing	3
CISC3021	Multimedia Forensics and Security	3
CISC3024	Pattern Recognition	3
CISC3029	Computer Vision	3

**Stream C: Software Engineering**

CISC2007	Human-Computer Interaction	3
CISC2008	Object-Oriented Analysis and Design Patterns	3
CISC3010	Distributed Computer Systems	3
CISC3020	Formal Software Specification	3
CISC3022	Software Testing	3
CISC4002	Software Project Management	3

**Other Electives:**

CISC2004	Compiler Construction	3
CISC3006	Computer Based Simulation	3
CISC3007	Formal Languages and Automata	3
CISC3015	Data and Information Visualization	3
CISC3017	Bioinformatics	3
CISC3019	Competition Programming and Problem Solving	3
CISC3027	Special Topics in Computer and Information Science	3
CISC3028	Entrepreneurship in Computer Science	3
CISC4003	Information Security	3

Remarks:

- \* Students are required to take 4 courses from one of the Stream A, B or C, and 3 courses from outside that Stream or from Other Electives in the List of Required Electives.

# Bachelor's Degree Programmes

## Bachelor of Science

### • Electrical and Computer Engineering

Year I		Credits
ECEN1001	Introduction to Electrical and Computer Engineering	1
ECEN1003	Information Technology Revolution and Electronics	1
ECEN1004	Embedded Systems	3
ECEN1005	Circuit Analysis	4
ECEN1011	Digital Systems	3
ECEN1012	Computer Programming and Network Fundamentals	4
ECEN1013	Physics for Electrical and Computer Engineering	3
MATH1003	Intermediate Calculus	3
Community and Peer Education Courses		2
Languages and Skills Courses		9
General Education Course:		
GEST1004	Quantitative Reasoning for Science and Technology	3
<b>Total Credits:</b>		<b>36</b>

Year II		Credits
ECEN2001	Measurement and Instrumentation	3
ECEN2002	Electric Machines	3
ECEN2003	Fundamental Electronics	3
ECEN2005	Electromagnetism	3
ECEN2015	Applied Electronics	3
ECEN2017	Signals and Systems	3
ECEN2018	Linear Algebra, Probability and Statistics for Electrical and Computer Engineering	4
ECEN2019	Power System Engineering and Protection	3
MATH2000	Engineering Mathematics I	3
Community and Peer Education Courses		1
Languages and Skills Courses		3
General Education Course:		
1 course from area of Science and Technology		3
<b>Total Credits:</b>		<b>35</b>



<b>Year III</b>		<b>Credits</b>
ECEN3000	Control Systems	3
ECEN3001	Digital Signal Processing	3
ECEN3008	Power Systems Analysis	3
7 Required Electives		21
General Education Courses:		
GEGA1000	Macao and Chinese Civilization	3
GESB1000	Ethics, Values, Law and Society	3
<b>Total Credits:</b>		<b>36</b>

<b>Year IV</b>		<b>Credits</b>
ECEN3002	Electrical and Computer Engineering Seminars	1
ECEN4000	Graduation Project I	3
ECEN4001	Graduation Project II	3
STGC3000	Work-Integrated Education	3
3 Required Electives		9
Languages and Skills Courses		3
General Education Courses:		
GELH1000	Chinese Language and Culture	3
1 course from area of Global Awareness		3
1 course from area of Literature and Humanities		3
1 course from area of Society and Behaviour		3
<b>Total Credits:</b>		<b>34</b>

<b>Grand Total:</b>	<b>Credits</b>
	<b>141</b>

### **List of Required Electives^**

#### **Group A: Biomedical Engineering**

ECEN2009	Biology	3
ECEN3003	Introduction to Biomedical Engineering	3
ECEN3004	Fundamental Bio-Electricity	3
ECEN3005	Biomedical Electronics	3
ECEN3006	Introduction to Biomedical Signal Analysis	3
ECEN4004	Biomedical Measurement and Instrumentation	3
ECEN4005	Introduction to Biomedical Imaging	3

#### **Group B: Electric Power Engineering and its Automation**

ECEN3007	Power Electronics	3
ECEN3009	Power Quality and Energy Saving	3
ECEN3010	Power Electronics Design and Implementation	3
ECEN3011	Electric Drive	3

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ECEN4006	Renewable Energy Conversion	3
ECEN4007	Power System Design and Implementation	3

**Group C: Microelectronics Discipline**

ECEN3017	Analog Integrated Circuit Design	3
ECEN3018	Introduction to Data Converters	3
ECEN3019	Introduction to Radio-Frequency Circuits and Systems	3
ECEN3020	Advanced Topics in Analog and Mixed-Signal Integrated Circuit Design	3
ECEN3022	Advanced Integrated Circuit Design for Internet of Things Systems	3

**Group D: Wireless Technology Discipline**

ECEN3012	Principles of Communication Systems	3
ECEN3013	Radio Frequency and Microwave Techniques for Wireless Systems	3
ECEN3014	Antenna Theory and Applications in Wireless Communications	3
ECEN3015	Cellular Communication Network Design and Optimization	3
ECEN3016	Introduction to Wireless Technology for Digital Game	3
ECEN4008	Introduction to Wireless Sensing Network	3
ECEN4009	Microwave and Millimeter Wave System Design	3

**Group E: Internet of Thing Engineering and Intelligent Control**

ECEN3023	Intelligent Methods for Electrical and Computer Engineering	3
ECEN3024	Fundamentals of Internet of Things	3
ECEN3025	Internet of Things Workshop	3
ECEN3026	Data Analytics for Electrical and Computer Engineering	3

**Group F: General and Mathematics**

ECEN1006	Engineering and Society	3
ECEN2006	Numerical Method and Computation	3
ECEN2010	Semiconductor Device Physics	3
ECEN2011	Introduction to Electro-Robot Design	3
ECEN3021	Multimedia Technology	3
ECEN4002	Digital Control	3
ECEN4003	Special Topic in Electrical and Computer Engineering	3

Remarks:

^ Students are required to select 10 courses in the above Required Elective Course Groups with the following rubrics:		
- 1 course from each of Group A-F		18
- 1 more course from one of the Discipline Group A-E		3
- 3 more courses freely selected from any of the Groups A-F		9
<b>Total:</b>		<b>30</b>

## FACULTY OF SCIENCE AND TECHNOLOGY

# Bachelor's Degree Programmes

## Bachelor of Science

### • Electromechanical Engineering

Year I	Credits
ECEN1008 Physics I	3
EMEN1001 Engineering Drawing I	1
EMEN1002 Engineering Drawing II	1
EMEN1003 Engineering Materials	3
EMEN1004 Statics	3
MATH1003 Intermediate Calculus	3
Community and Peer Education Courses	2
Languages and Skills Courses	12
General Education Courses:	
GELH1000 Chinese Language and Culture	3
GEST1004 Quantitative Reasoning for Science and Technology	3
1 course from area of Science and Technology	3
<b>Total Credits:</b>	<b>37</b>

Year II	Credits
EMEN2000 Strength of Materials	3
EMEN2001 Thermodynamics	3
EMEN2002 Manufacturing Technology	3
EMEN2003 Electrical Engineering	3
EMEN2004 Dynamics	3
EMEN2005 Computer-Aided Design	3
EMEN2006 Machine Elements	3
EMEN2007 Mechatronics	3
MATH2000 Engineering Mathematics I	3
MATH2001 Engineering Mathematics II	3
Community and Peer Education Courses	1
Languages and Skills Courses	3
General Education Course:	
GEGA1000 Macao and Chinese Civilization	3
<b>Total Credits:</b>	<b>37</b>

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<b>Year III</b>		<b>Credits</b>
EMEN3000	Production Management	3
EMEN3001	Fluid Mechanics	3
EMEN3002	Control Engineering	3
EMEN3003	Heat Transfer	3
EMEN3004	Computer Engineering	3
EMEN3005	Society and the Engineer	1

4 Required Electives 12

General Education Courses:

GESB1001	Applied Ethics	1
GESB1002	Foundations of Moral Values	1
GESB1003	Law and Society	1
1 course from area of Global Awareness		3

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**Total Credits:** 34

<b>Year IV</b>		<b>Credits</b>
EMEN4000	Graduation Project	6
STGC3000	Work-Integrated Education	3

6 Required Electives 18

General Education Courses:

1 course from area of Literature and Humanities		3
1 course from area of Society and Behaviour		3

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**Total Credits:** 33

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<b>Grand Total:</b>	<b>Credits</b>	<b>141</b>
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#### **List of Required Electives^**

##### **Stream A – Building Services**

EMEN3008	Air Conditioning and Refrigeration	3
EMEN3012	Electrical Services - Wiring and Installations	3
EMEN3018	Intelligent Buildings	3
EMEN3025	Fire Protection Engineering	3
EMEN3030	Special Topics in Electromechanical Engineering I	3
EMEN3036	Extra-low-voltage Electrical Systems in Buildings	3
EMEN3037	Facility Management	3
EMEN3038	Lighting Technology	3

##### **Stream B – Energy, Engineering Design & Control**

EMEN3009	Applications of Vibration and Noise Control	3
EMEN3010	Computer Technology in Engineering	3
EMEN3013	Electromechanical Energy Conversion	3
EMEN3014	Electronics and Instrumentation	3

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EMEN3015	Finite Element Techniques in Engineering	3
EMEN3016	Fundamentals of Automotive Engineering	3
EMEN3019	Internal Combustion Engines	3
EMEN3023	Computational Fluid Dynamics	3
EMEN3026	Robotics	3
EMEN3028	Optimization Techniques and Their Applications in Engineering	3
EMEN3031	Special Topics in Electromechanical Engineering II	3
EMEN3033	Theory of Mechanisms	3
EMEN3035	Electric Vehicles	3
EMEN3040	Nonlinear Dynamics and Chaos	3
EMEN3041	Selection of Materials for Engineering Design	3
EMEN3042	Sensors and Actuators	3
EMEN3045	Thermal Energy Transportation in Porous Media	3

**Stream C – Materials, Manufacturing & Engineering Management**

EMEN3006	Advanced Manufacturing	3
EMEN3007	Advanced Materials for Engineering	3
EMEN3011	Corrosion, Wear and Degradation of Materials	3
EMEN3017	Industrial Data Management	3
EMEN3024	Engineering Management	3
EMEN3027	Mechanical Behaviour of Engineering Materials and Basic Failure Analysis	3
EMEN3029	Production Systems, Planning and Control	3
EMEN3032	Special Topics in Electromechanical Engineering III	3
EMEN3034	Creative Industry	3
EMEN3039	Mechanical Processing of Materials	3
EMEN3043	Statistics and Probability for Engineering	3
EMEN3044	Surface Engineering and Coating Technology	3

**Remarks:**

- ^ Students are required to select at least one Required Elective from each stream and the rest can be from Stream A, B or C.

# Bachelor's Degree Programmes

## Bachelor of Science

### • Mathematics with Specialization in Mathematics and Applications

<b>Year I</b>		<b>Credits</b>
MATH1000	Discrete Mathematics	3
MATH1001	Linear Algebra I	3
MATH1002	Linear Algebra II	3
MATH1003	Intermediate Calculus	3
Community and Peer Education Courses		2
Languages and Skills Courses		12
General Education Course:		
GELH1000	Chinese Language and Culture	3
GEST1004	Quantitative Reasoning for Science and Technology	3
1 Free Elective		3
<b>Total Credits:</b>		<b>35</b>

<b>Year II</b>		<b>Credits</b>
MATH2002	Multivariable Calculus	3
MATH2003	Mathematical Analysis I	3
MATH2004	Mathematical Analysis II	3
MATH2005	Probability	3
MATH2007	Numerical Analysis	3
MATH2008	Operations Research	3
MATH2011	Introduction to Scientific Computing	3
ECEN1008	Physics I	3
Community and Peer Education Courses		1
Languages and Skills Courses		3
General Education Courses:		
GEA1000	Macao and Chinese Civilization	3
GESB1000	Ethics, Values, Law and Society	3
<b>Total Credits:</b>		<b>34</b>

<b>Year III</b>		<b>Credits</b>
MATH3000	Ordinary Differential Equations	3
MATH3001	Complex Analysis	3
MATH3004	Partial Differential Equations	3
MATH3026	Real Analysis	3
MATH3027	Functional Analysis	3
2 Required Electives		6
General Education Courses:		
1 course from area of Literature and Humanities		3
1 course from area of Society and Behaviour		3
1 Free Elective		3
<b>Total Credits:</b>		<b>30</b>

<b>Year IV</b>		<b>Credits</b>
MATH4002	Research in Mathematics	3
MATH4005	Numerical Methods for Differential Equations	3
1 Required Elective		3
General Education Courses:		
1 course from area of Global Awareness		3
1 course from area of Science and Technology		3
2 Free Electives		6
<b>Total Credits:</b>		<b>21</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

#### **List of Required Electives**

MATH3002	Introduction to Stochastic Process	3
MATH3009	Time Series Analysis	3
MATH3011	Numerical Matrix Analysis	3
MATH3012	Introduction to Computational Intelligence	3
MATH3013	Mathematical Modeling	3
MATH3014	Topics in Applied Mathematics	3
MATH3015	Introduction to Financial Mathematics	3
MATH3028	Numerical Linear Algebra	3
MATH3029	Topics in Applied Analysis	3

# Bachelor's Degree Programmes

## Bachelor of Science

### • Mathematics with Specialization in Statistics and Data Science

<b>Year I</b>		<b>Credits</b>
CISC1001	Programming Science	3
CISC1002	Discrete Structures	3
MATH1001	Linear Algebra I	3
MATH1002	Linear Algebra II	3
MATH1003	Intermediate Calculus	3
Community and Peer Education Courses		2
Languages and Skills Courses		12
General Education Courses:		
GELH1000	Chinese Language and Culture	3
GEST1004	Quantitative Reasoning for Science and Technology	3
<b>Total Credits:</b>		<b>35</b>

<b>Year II</b>		<b>Credits</b>
MATH2002	Multivariable Calculus	3
MATH2003	Mathematical Analysis I	3
MATH2004	Mathematical Analysis II	3
MATH2005	Probability	3
MATH2006	Applied Statistics	3
Community and Peer Education Courses		1
Languages and Skills Courses		3
General Education Courses:		
GEA1000	Macao and Chinese Civilization	3
GESB1000	Ethics, Values, Law and Society	3
2 Free Electives		6
<b>Total Credits:</b>		<b>31</b>



<b>Year III</b>	<b>Credits</b>
CISC3000 Introduction to Database Systems	3
MATH2009 Linear Statistical Analysis	3
MATH3000 Ordinary Differential Equations	3
MATH3002 Introduction to Stochastic Process	3
MATH3017 Data-Driven Sampling Methods	3
MATH3018 Multivariate Data Analysis	3
3 Required Electives	9
General Education Courses:	
1 course from area of Literature and Humanities	3
1 course from area of Society and Behaviour	3
<b>Total Credits:</b>	<b>33</b>

<b>Year IV</b>	<b>Credits</b>
MATH2010 Computational Statistics	3
MATH4003 Nonparametric Statistics	3
MATH4004 Graduation Project	3
1 Required Elective	3
General Education Courses:	
1 course from area of Global Awareness	3
1 course from area of Science and Technology	3
1 Free Elective	3
<b>Total Credits:</b>	<b>21</b>

<b>Grand Total:</b>	<b>Credits</b>
	<b>120</b>

### **List of Required Electives**

CISC3015 Data and Information Visualization	3
CISC3018 Cloud Computing and Big Data Systems	3
CISC3023 Machine Learning	3
CISC3024 Pattern Recognition	3
CISC3025 Natural Language Processing	3
MATH3008 Introduction to Stochastic Calculus	3
MATH3009 Time Series Analysis	3
MATH3015 Introduction to Financial Mathematics	3
MATH3020 Bayesian Method in Data Analysis	3
MATH3021 Data Mining and Statistical Learning	3
MATH3025 Topics in Statistics and Data Science	3
MATH3030 Topics in Statistical Methods in Data Science	3

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## Course Description

### DOCTORAL DEGREE PROGRAMMES

#### **CIVL8001     ADVANCED TOPICS IN CIVIL ENGINEERING**

Any specialized topics in Civil Engineering chosen by staff members who have experience in that particular field, but the topics are not covered by other postgraduate courses.

Pre-requisite: None

#### **CIVL8999     DOCTORAL THESIS**

An independent investigation under the supervision of a faculty staff member.

Pre-requisite: None

#### **CISC8001     ADVANCED TOPICS IN COMPUTER SCIENCE**

Any specialized topic in Computer Science chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses.

Pre-requisite: None

#### **CISC8999     DOCTORAL THESIS**

An independent investigation under the supervision of a faculty staff member.

Pre-requisite: None

#### **ECEN8001     ADVANCED TOPICS IN ELECTRICAL AND COMPUTER ENGINEERING**

Any specialized topic in Electrical and Computer Engineering chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses.

Pre-requisite: None

#### **ECEN8999     DOCTORAL THESIS**

An independent investigation under the supervision of a faculty staff member.

Pre-requisite: None

#### **EMEN8001     ADVANCED TOPICS IN ELECTROMECHANICAL ENGINEERING**

Any specialized topic in Electromechanical Engineering chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses.

Pre-requisite: None

#### **EMEN8999     DOCTORAL THESIS**

An independent investigation under the supervision of a faculty staff member.

Pre-requisite: None

#### **MATH8001     ADVANCED TOPICS IN MATHEMATICS**

Any specialized topic in Mathematics chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses.

Pre-requisite: None

#### **MATH8999     DOCTORAL THESIS**

An independent investigation under the supervision of a faculty staff member.

Pre-requisite: None

#### **STGC8002     RESEARCH WRITING**

The course focuses on helping students to make academic presentations whether verbally (as in a conference) or in writing (as in a paper). Topics include:

- How to structure a presentation (on paper and in power point)
- Tenses used in various parts of a paper presentation
- How to structure clear logical paragraphs
- How to be concise

- How to avoid ambiguity and different writing styles (for example, conventions for use of numbers, abbreviations, etc.)

Pre-requisite: None

### **STGC8003 RESEARCH METHODS AND ETHICS**

This course aims to provide PhD students with research skills that are essential to become a successful researcher. The need for research ethics and the responsibility of the researcher (the student) and to avoid committing acts of academic dishonesty (such as through using citations and references). The topics of this course will include research methodology, professional ethics and academic integrity, and oral presentation and paper writing techniques. Students will be required to perform a literature survey, to construct a research proposal, and to write a paper summary in the style of formal scientific paper, in one of their familiar research topics.

Pre-requisite: None

## **MASTER'S DEGREE PROGRAMMES**

### **CIVL7001 ADVANCED MATHEMATICS**

This course introduces the methods for numerical analysis in science and engineering. It includes the mathematical modeling and error analysis, methods for the solutions of linear and nonlinear algebraic equations, optimization, numerical differential derivation and integration, curve fitting, numerical solutions of ordinary and partial differential equations.

Pre-requisite: None

### **CIVL7002 THEORY OF ELASTICITY AND PLASTICITY**

This course intends to provide students a comprehensive knowledge on the theory of elasticity and plasticity. The course focuses on the following topics: continuous medium, Cartesian tensors, deformation, displacement and strain tensors, compatibility conditions, external and internal forces, equilibrium, stress tensors, principal stresses, invariants and stress deviators, Mohr's circle, constitutive law, plasticity theory, yield and failure criteria, stability postulates, laws of mechanics, Navier's equations, plane stress and plane strain problems, variational principles, general theory of plane strain for perfectly plastic materials.

Pre-requisite: None

### **CIVL7003 FINITE ELEMENT METHOD**

Basic concepts. Virtual work and energy methods. Weighted residual methods. Rayleigh-Ritz and Galerkin methods. Finite element displacement method. Interpolation functions. Plate stretching and plane strain. Triangular elements. Isoparametric elements. Three dimensional stress analysis. Plate bending. Field problems. Vibrations. Stability. Nonlinear behaviour. Hybrid elements.

Pre-requisite: None

### **CIVL7004 ADVANCED SOIL MECHANICS**

The emphasis of this course is on the practical knowledge of soil behavior required by civil engineers for design and construction of geotechnical projects. Two most important topics of soil mechanics, consolidation and shear strength of soils, will be discussed in detail.

Pre-requisite: None

### **CIVL7005 SUBSURFACE INVESTIGATION AND SOIL TESTING**

The aim of this course is designed to provide postgraduate civil engineering students an advanced knowledge of geotechnical site investigation and soil testing. It includes site investigation procedures, planning and reporting, methods of subsurface investigation; ground or soil exploration includes boring, sampling soils and rocks; description and classification of soils and rocks, determination of stratigraphy and engineering properties by different types of

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field tests and laboratory tests; estimation of soil properties for foundation design and geophysical methods for site investigation.

Pre-requisite: None

#### **CIVL7006 ADVANCED FOUNDATION ENGINEERING**

Shallow foundations. Bearing capacity of foundations on homogeneous soils and layered soils. Estimation of settlements. Measures to minimize damage. Analysis of combined footings and rafts. Pile foundations. Piles subjected to lateral loads. Displacement of pile group under axial and lateral loads. Foundation design for fills. Foundations for transmission towers.

Pre-requisite: None

#### **CIVL7007 SOIL DYNAMICS**

Dynamics of elastic systems. Single and multi-degree of freedom systems. Wave propagation in soil. Deformation and elastic properties of soils. Types of machine foundations. Mass-spring-dashpot model and elastic half space theory. Foundations for reciprocating machines and hammer foundations. Construction aspects of machine foundations. Foundations for miscellaneous machines. Vibration isolation and dampers.

Pre-requisite: None

#### **CIVL7008 STRUCTURAL DESIGN OF FOUNDATIONS**

Conventional structural design of continuous footings, individual footings, combined footings and rafts of various types subjected to vertical loads, lateral loads and moments. Design of circular rafts. Soil-structure interaction and design of foundation using flexibility approach. Structural design of piles and pile caps, under-reamed piles piers and caissons. Structural design of retaining structures.

Pre-requisite: None

#### **CIVL7009 SPECIAL TOPICS IN GEOTECHNICAL ENGINEERING**

This is a course for postgraduate students to understand the principles of geotechnical earthquake engineering. The basic concepts of seismology will be covered. Basic principles of wave propagation and ground response analysis will be presented. Advanced topics including liquefaction and seismic slope stability will also be covered.

Pre-requisite: None

#### **CIVL7010 STRUCTURAL VIBRATIONS**

This course introduces fundamental concepts of structural dynamics. It serves as an introductory course for graduate students in civil and mechanical engineering. This course starts from fundamental concepts and formulation of structural dynamic problems. Then, analysis in time-domain and frequency-domain will be introduced. Numerical methods will be delivered with consideration in accuracy, efficiency and stability.

Pre-requisite: None

#### **CIVL7011 PLATES AND SHELLS**

Basic concept of plates and shells will be introduced such as small deflection theory of elastic thin plates, rectangular plates, circular plates, plates on elastic foundation, in plane forces, buckling of plates, large deflections of plates, membrane theory of shells, bending theory of shells, shallow shells, cylindrical shells, buckling of shells.

Pre-requisite: None

#### **CIVL7012 STRUCTURAL ANALYSIS AND FINITE ELEMENTS**

This course focuses on the following topics: finite element modeling for analysis of tall buildings, frame structure, shear wall structure, wall-frame structure, space structure, core structure, and core wall structure, tube structure, outrigger-braced structure, giant structure, stability and dynamics of structures, the analysis and behavior of various structures.

Pre-requisite: None

### **CIVL7013 SPECIAL TOPICS IN STRUCTURAL ENGINEERING**

Members of the staff will arrange special courses on advanced topics for properly qualified graduate students.

Pre-requisite: None

### **CIVL7014 NUMERICAL MODELING IN GEOMECHANICS**

This course introduces constitutive models of soils and numerical modeling in geotechnical engineering. Soil constitutive models, such as Linear Elastic, Elasto-Plastic, Nonlinear and Cam-Clay models are discussed. Basic background of the finite element (FE) technique is briefly introduced with emphasis on geotechnical applications. A finite element commercial program (PLAXIS or SIGMA/W) is introduced to students to analyze geotechnical problems. The course aims to provide students essential knowledge on soil behavior, numerical modeling, and their applications in geotechnical engineering.

Pre-requisite: None

### **CIVL7015 RANDOM VIBRATIONS OF STRUCTURES**

This course focuses on the following topics: random variable; random process; correlation function; power spectral density function; properties of linear systems; response of linear SDOF systems to random excitation; responses of linear MDOF systems to random excitation; probability density responses of linear systems; reliability analysis of linear systems; introduction to nonlinear random vibrations.

Pre-requisite: None

### **CIVL7016 BEHAVIOR AND DESIGN OF STEEL MEMBERS**

This course is designed to introduce the behaviour and design of steel structural members according to the limit states design concept. The behaviour and design of the following topics will be discussed: (1) Steelmaking, Steel Properties, Design Philosophy, (2) Torsion of beam (St. Venant torsion, warping torsion of W-shapes, solution of torsion problem), (3) Beam (Beam classifications - Bending moment and shear capacity. Lateral torsional buckling), (4) Plate Girders (Local buckling, plastic action and moment redistribution, lateral buckling under uniform moment and special loading cases, inelastic effects, elastic and inelastic shear behaviour of plate girder), (5) Axially Loaded Members (Elastic and inelastic buckling theories, effect of residual stresses and initial curvature, local buckling), (6) Beam-Columns (In-plane behaviour, ultimate strength, out-of-plane behaviour, elastic and inelastic stability, local buckling). Students are expected to obtain advance knowledge about the design and failure mode of steel structural members after finished this course.

Pre-requisite: None

### **CIVL7017 GROUND IMPROVEMENT TECHNIQUES**

Soil densification, Compaction Control Tests, Preloading and use of vertical sand drains, In-situ reinforcement- stone columns, soil nailing, micropiles, ground anchors, rock bolts, Flexible Geosynthetic sheet reinforcement.

Pre-requisite: None

### **CIVL7018 LANDSLIDES MECHANISMS, MITIGATION AND RISK ASSESSMENT**

Under the influence of climate change and urban development, landslides are becoming one of the most common natural hazards in China and around the world. In this course, landslide (debris flow) disasters will be the major focus. Mechanisms, process, mitigation measures and risk assessment will be discussed. The course will arise the students' awareness and prepare necessary background knowledge for them to manage coastal safety targeting landslide disasters.

Pre-requisite: None

### **CIVL7019 SPECIAL TOPICS IN GEOTECHNICAL ENGINEERING I**

This course explores current special topics in geotechnical engineering, such as site characterization, instrumentation, ground improvement and remediation. Topics vary with each

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offering and are disseminated before registration.

Pre-requisite: None

### **CIVL7020 SPECIAL TOPICS IN STRUCTURAL ENGINEERING I**

Members of the staff will arrange special courses on advanced topics for properly qualified graduate students.

Pre-requisite: None

### **CIVL7021 SPECIAL TOPICS IN STRUCTURAL ENGINEERING II**

Members of the staff will arrange special courses on advanced topics for properly qualified graduate students.

Pre-requisite: None

### **CIVL7022 ADVANCED COMPUTATIONAL METHODS: PRINCIPLES AND APPLICATIONS**

This is an introductory course on advanced computational methods for civil and coastal dynamical system analysis. The methods are potentially applied to coastal city vulnerability and resilience analysis, system modeling and updating, dynamical system identification, structural reliability and control, statistical analysis and uncertainty quantification, and more. Students will learn foundational knowledge and principles of advanced computational methods. Also, the students will be equipped with exploring state-of-the-art computational tools and methods to enter the corresponding research fields.

Pre-requisite: None

### **CIVL7023 ECONOMIC ANALYSIS AND FINANCIAL MANAGEMENT IN ENGINEERING**

The course is to cover the fundamental principles needed by construction managers to successfully manage the finances of construction companies. These principles include accounting for financial resources, managing costs and profits, managing cash flows and analyzing financial alternatives.

Pre-requisite: None

### **CIVL7024 FRACTURE MECHANICS AND FATIGUE**

Linear elastic fracture mechanics, Concept of Stress intensity factor, Correction factors of stress intensity factor, Numerical methods for stress intensity factor determination, Introduction to the elastic plastic fracture mechanics. Assessment of residual life of structural members.

Pre-requisite: None

### **CIVL7025 RELIABILITY ANALYSIS IN CIVIL ENGINEERING**

This course focuses on the following topics: development of design code in civil engineering, randomness in civil engineering, limit state design and performance function, reliability analysis, reliability-based design criteria and factors in design codes, system reliability, further development and research topics on reliability analysis in civil engineering.

Pre-requisite: None

### **CIVL7026 INSTRUMENTATION SYSTEMS IN CIVIL ENGINEERING**

This course is designed to introduce the concept and application of instrumentation system in Civil Engineering. The following topics will be discussed in the class: (1) Instrumentation systems, Signals and Errors, (2) Characteristics of instruments – Transducers, Noise and Nonlinearity, Static characteristics, Dynamic characteristics, (3) Signal conditioning – Introduction, Operating amplifier, Applications of Op-amps, filtering, (4) Data acquisition – Analog devices, Digital Devices, Sampling Theorem, Nyquist frequency, Quantization error, (5) Noise Reduction – Interference, Shielding, Grounding, Noise mode, Noise elimination or reduction, (6) Instruments and Sensors – Strain gauge, LVDT, Pressure transducer, Load cell (7) Signal Processing – Sampling Theorem, Laplace-transform and Z-transform. Students are expected to obtain knowledge about the background theory and application of different type of instruments used in Civil Engineering.

Pre-requisite: None

### **CIVL7027 CONSTITUTIVE MODELING IN SOIL MECHANICS**

Constitutive modelling is an important subject in continuum mechanics. This course focuses on the physical and mathematical principles of constitutive modelling with emphasis on soil mechanics. Elasticity and plasticity frameworks for isotropic and anisotropic soil modelling are discussed. Critical state hardening models such as the original Cam clay and modified Cam clay are elaborated in detail. The concept of bounding surface and more advanced state-dependent dilatancy models are introduced. The course aims at providing students a fundamental understanding of the constitutive modelling techniques in soil mechanics.

Pre-requisite: None

### **CIVL7028 ANALYSIS AND DESIGN OF REINFORCED CONCRETE MEMBERS**

This course intends to provide students the knowledge on both analytical and design aspects of reinforced concrete and prestressed concrete members. The course focuses on the following topics: the analysis and design of both statically determinate and indeterminate prestressed concrete members, the analysis and design of prestressed concrete composite sections, the limit analysis of reinforced concrete slabs, and the strut-and-tie method.

Pre-requisite: None

### **CIVL7029 HYDRODYNAMICS AND FLOODS**

In the context of coastal environment and urban safety, this course introduces the fundamentals and topics of fluid mechanics. In addition, analytical and numerical methods for predicting flood hazards will be introduced.

Pre-requisite: None

### **CIVL7030 COASTAL FLUID MECHANICS AND STORM SURGE**

This course provides understanding on the physical processes in the coastal regions, where between the continental slope of marginal sea and land. The course starts with basic principle of the current and mass transport, then towards their applications in coastal marine system, which including the features of estuary circulation, shelf Ekman current, tide, geostrophic effect and the underlying forcing mechanisms. The formation of storm surge and the disaster prevention in the coastal regions will be introduced.

Pre-requisite: None

### **CIVL7031 SEDIMENT TRANSPORT AND EROSION**

This course aims to introduce fundamental mechanics of sediment transport in oceans, coastal areas, and rivers, and practical tools for sediment-related problems. It talks about sediment dynamics and coastal sediment-related problems, especially coastal erosions. Edge-cutting studies on related topics and tools for solving sediment problems are introduced.

Pre-requisite: None

### **CIVL7032 MUNICIPAL SOLID WASTE MANAGEMENT**

Integrated Solid Waste Management: Throughout this course, the management of our society's waste will be covered in a manner that meets public health and environmental concerns and the public's desire to reduce, reuse, and recycle waste materials. The engineering principles, the data, the engineering and scientific formulas, and examples of the day-to-day issues associated with the management of municipal solid waste (MSW) will be discussed. Starting from the introductory materials in integrated MSW, materials recovery, processing, and waste transformation, and integrated MSW policy issues will also be covered. Eventually the reflective and logical way of thinking regarding the problems and solutions in solid waste engineering will be nourished.

Pre-requisite: None

### **CIVL7033 ENVIRONMENTAL CHEMISTRY**

Many aspects of environmental engineering involve the treatment of water for human consumption and the treatment of wastes prior to their release into the environment. In addition,

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an understanding of the chemical fate of pollutants in the environment is important. Water chemistry and chemical reactions are therefore important in both engineered treatment processes and in natural systems in which wastes may be attenuated.

Pre-requisite: None

#### **CIVL7034 COASTAL WATER TREATMENT PRINCIPLES AND PROCESSES**

This course focuses on the fundamental principles in the design and operation of key technologies in coastal water and wastewater treatment. The principles of physics, chemistry, and biology are covered, as well as the processes of treatment and the issues that arise from their application. Moreover, through the case study, the current state of this field, as well as relevant research topics, will be introduced.

Pre-requisite: None

#### **CIVL7035 WATER POLLUTION CONTROL: PHYSICAL AND CHEMICAL MODELING**

Carbonate buffering systems of natural waters: acid and base equilibrium; Inorganic species in natural waters: solid dissolution and precipitation equilibrium; Metal behavior in natural waters: metal-ligand complex formation; Redox reactions in natural waters: equilibrium and kinetics; Particulate matters in natural waters: aqueous surface chemistry.

Pre-requisite: None

#### **CIVL7036 ENVIRONMENTAL ASSESSMENT AND PLANNING: COMPUTER MODELING**

General methods for environmental assessment and planning: pollution monitoring, pollution source and pathways, impacts on environment, pollution control; Linear and non-linear multi-objectives programming; Regional planning of air and water pollution control; Urban development vs. environmental planning.

Pre-requisite: None

#### **CIVL7037 AIR POLLUTION CONTROL**

Air quality and meteorological conditions; Air pollution index and indicators; Air pollution control: strategies and technologies; Aerosols; Vehicular emission pollution; Toxic organic air pollution; Global environmental issues: acid rain; global warming; ozone depletion.

Pre-requisite: None

#### **CIVL7038 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING**

(Subtitle: Biological Wastewater Treatment)

Principles of microbiological, biochemical, and biophysical processes used in environmental waste treatment and remediation processes, with particular emphasis on water quality control processes.

Pre-requisite: None

#### **CIVL7039 AIR POLLUTION METEOROLOGY AND CHEMISTRY**

It is designed to provide a rigorous, comprehensive treatment of the chemistry of air pollutants in the ambient air, the meteorology of air pollution, and the transport, diffusion and removal of the pollution species in the atmosphere. In this course, students will learn the methods and models, which would allow to predict the concentration profile that would result from any specified set of pollution emissions for any specific meteorological conditions at any location for any period.

Pre-requisite: None

#### **CIVL7040 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING I**

(Subtitle: Remediation of Contaminated Soil and Groundwater)

This course will nourish students with their capabilities of selecting and/or developing remediation technologies appropriate for the causes and characteristics of contamination of the subsurface environment, soil and groundwater. This course will especially be focused on studying the causes of contamination of soil and groundwater, the characteristics and behaviors



of contaminants, and the physical / chemical / biological / thermal remediation technologies.  
Pre-requisite: None

### **CIVL7041 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING II**

(Subtitle: Physical and Chemical Water Treatment)

Physical-chemical treatment processes for the treatment of water, including sedimentation, flotation, filtration, coagulation, oxidation, disinfection, precipitation, adsorption, and membrane treatment processes. Current issues in drinking water quality and treatment are discussed.

Pre-requisite: None

### **CIVL7042 SPECIAL TOPICS IN ENVIRONMENTAL ENGINEERING III**

(Subtitle: Environmental Biotechnology)

This course reflects the most current and exciting fields of environmental science engineering, as a combination of ET (Environmental Technology) and BT (Bio-Technology) and would enable students first to connect two different facets of environmental biotechnology, principles of environmental microbiology and environmental engineering. They can develop the basic concepts and quantitative tools in the principles part and then can apply those in the applications part. They will be able to, in the long run, exploit microbiological processes to improve environmental quality, such as preventing the discharge of pollutants into the environment, cleaning up contaminated environments, and recovering valuable resources for human society. For students not already having a solid background in environmental microbiology, this course will also provide fundamentals in taxonomy, metabolism, genetics, and microbial ecology, by addressing the microbiology concepts that are most essential for understanding the principles and applications of environmental biotechnology.

Pre-requisite: None

### **CIVL7043 QUANTITATIVE METHODS FOR CONSTRUCTION DECISION MAKING**

This course aims to provide sound and comprehensive coverage of the concepts of quantitative methods for construction decision making. Major topics include: (1) analytic hierarchy process (AHP), (2) decision tree analysis, (3) inventory analysis, (4) simulation techniques, (5) linear, mixed-integer and goal programming, (6) dynamic programming.

Pre-requisite: None

### **CIVL7044 QUALITY AND SAFETY MANAGEMENT IN CONSTRUCTION**

This course aims to provide sound and comprehensive coverage of the concepts of quality management and safety management for the construction industry of Macau, as compared to their international practices. Major topics include: (1) quality management system based on ISO9000, (2) QA/QC in construction, (3) quality indicators and quality costs, (4) safety management systems, (5) construction accidents, (6) safety schemes.

Pre-requisite: None

### **CIVL7101 INTRODUCTION TO OCEANOGRAPHY**

This course is designed to introduce students to important concepts and fundamental principles in the study of the oceans and basic oceanographic research. Topics cover chemical, geological, physical and biological oceanography, as well as basic concepts in marine resource and marine environmental management.

Pre-requisite: None

### **CIVL7102 MARINE ECOLOGY**

This course presents the fundamental principles and advanced topics on the ecology of marine biodiversity and ecosystems. It focuses on processes and patterns that are specific to the marine environment, including the dynamics of estuarine and coastal ecosystem, the drivers of primary and secondary productivity, dynamics of coral reef ecosystem.

Pre-requisite: None

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**CIVL7103     AQUATIC CHEMISTRY**

Many aspects of coastal environmental process involve in-depth understanding of aquatic chemistry principles. In addition, aquatic chemistry knowledge is of vital importance to pollution control and remediation in coastal areas. Water chemistry and chemical reactions are therefore important in both engineered treatment processes and in natural systems in which wastes may be attenuated.

Pre-requisite: None

**CIVL7104     ATMOSPHERIC CHEMISTRY**

This course is designed to provide some fundamentals of meteorological phenomena and chemical processes that affect urban air quality and global climate, with a focus on coastal environment where anthropogenic emissions and marine air masses interact substantially. It deals with the horizontal and vertical dynamics of air in a global to regional scale, as well as the chemistry occurring during transport of air pollutants. Specifically, the basics of atmospheric radiation and subsequent dynamics for air motion in general and in typical coastal regions will be introduced, as related to air pollution dispersion and the air pollution issues in recent decades.

Pre-requisite: None

**CIVL7105     COASTAL POLLUTION: SOURCES, FATE AND EFFECTS OF POLLUTANTS**

This course discusses the current state of coastal pollution, focusing on the impact of major pollutants (nutrients, microplastics, and antibiotics, etc.). Meanwhile, it also presents the removal strategies of the major pollutants found in seawater. The objective of this course is to equip graduate students with an understanding of the fundamental concepts and solutions relating to coastal pollution to lay a solid scientific foundation for their future research and work.

Pre-requisite: None

**CIVL7106     SPECIAL TOPICS IN HAZARD ALLEVIATION**

Members of the staff will arrange special courses on advanced topics on hazard prevention and mitigation in coastal cities to introduce principles and techniques of hazard alleviation to improve urban safety for properly qualified graduate students.

Pre-requisite: None

**CIVL7107     SPECIAL TOPICS IN COASTAL ENVIRONMENT**

Members of the staff will arrange special courses on advanced topics on coastal environment to introduce research and development in coastal environmental protection and remediation for properly qualified graduate students. It allows students to integrate multiple disciplinary knowledge to analyse scientific and technological problems related to coastal environmental protection and remediation.

Pre-requisite: None

**CIVL7197     INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

**CIVL7198     PROJECT REPORT**

Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will learn systematic problem-solving process skills, professional research and development practices, and project management skills. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

**CIVL7201     CONSTRUCTION PROJECT MANAGEMENT THEORY AND PRACTICE**

The aim of this course is to provide students with an overview of the theoretical and practical

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tools needed to successfully manage construction projects through feasibility study, design management, tendering, contract administration, time management, cost management, quality management, health and safety management, material and plant management, as well as customer relationship management.

Pre-requisite: None

#### **CIVL7202 CONTRACT MANAGEMENT**

This course will introduce to students the knowledge that is required to effectively utilize the contract as a tool to manage a construction project. The focus of the course will be understanding key contract terms and how to apply them when managing an active construction project.

Pre-requisite: None

#### **CIVL7203 ADVANCED CONSTRUCTION PLANNING AND SCHEDULING**

This course will introduce to students the principles, methods and tools required for the development and implementation of scheduling in the construction industry. This course will also introduce to students various programming and scheduling techniques suitable for planning of long, medium and short-term projects. Coursework is integrated with hands-on utilization of scheduling software commonly used in the industry and students will develop skills to create a schedule of tasks and activities related to the construction of a building or other structures, to allocate appropriate resources to such construction activities, and to develop schedules of construction activities within the most optimum time and cost. Guest lecturers may be featured for certain topics.

Pre-requisite: None

#### **CIVL7204 BUILDING INFORMATION MODELING (BIM): DEVELOPMENT AND APPLICATION**

This course covers topics about the development and application of Building Information Modeling (BIM) in building and construction management. The detailed contents may change depending on current developments and teacher specialization.

Pre-requisite: None

#### **CIVL7205 CONSTRUCTION COST MANAGEMENT**

This course covers the study of managing construction project cost in both the pre-contract and post-contract stages. It also covers key tools and techniques used such as value management, risk management and life cycle costing. It provides an introduction to construction cost information and databases; construction cost practices; and total cost control practices for construction projects.

Pre-requisite: None

#### **CIVL7206 INNOVATIVE METHODS AND APPLICATIONS OF INFORMATION TECHNOLOGY IN CONSTRUCTION**

This course introduces innovative technologies in the construction industry. It covers the advanced developments in construction management strategies, commercial software and digital tools, industrialization techniques, infrastructural systems and facilities, and novel construction methods and materials.

This course also covers the applications of information technology for construction management. Topics include introduction to both well-established information technology solutions and emerging trends. The course employs a combination of lecture and outside reading, and it depends on demonstrations of various software products in each category.

Moreover, speakers from various construction companies are invited to discuss the latest implementations in representative construction projects.

Pre-requisite: None

#### **CIVL7207 SUSTAINABILITY IN CONSTRUCTION**

This course covers the concepts of sustainable development and introduces the sustainable

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practices used in construction operations. It also covers environmental impact assessment and life-cycle environmental cost analysis when making sustainability decisions. It also covers sustainable construction materials and equipment, traditional and alternative construction processes.

Pre-requisite: None

#### **CIVL7208 SPECIAL TOPICS IN CONSTRUCTION PROJECT MANAGEMENT**

Members of the staff will arrange special courses on advanced topics on construction project management to introduce principles, tools and techniques applicable to the management of an active construction project at various phases.

Pre-requisite: None

#### **CIVL7297 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

#### **CIVL7298 PROJECT REPORT**

Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will learn systematic problem-solving process skills, professional research and development practices, and project management skills. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

#### **CIVL7996 APPLIED THESIS**

An independent project under the supervision of a faculty staff member. The goal of this thesis work is to facilitate the integration of practice with existing academic research or advanced technologies. The project must relate to the subject matter and be agreed by the department.

Pre-requisite: None

#### **CIVL7998 PROJECT REPORT**

An independent project carried out under the supervision of a faculty staff member.

Pre-requisite: None

#### **CIVL7997 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

#### **CIVL7999 ACADEMIC THESIS**

An independent and original research study under the supervision of a faculty staff member. The topic of research must be in line with the stream taken by the student. In general, the study could result in a technical publication or a presentation at a professional meeting.

Pre-requisite: None

#### **CISC7001 FUNDAMENTALS OF SOFTWARE ENGINEERING**

The course discusses the theories, methods and tools of software engineering for developing large and complex software systems. The main contents are requirement, specification, system analysis and modeling, software design, architectural design, object-oriented design, functional-oriented design, verification and validation. Unified Development Process based on Modeling Language (UML) as well as its CASE tool are used to software system analysis and design combining with the course projects.

Pre-requisite: None

### **CISC7002 COMPUTER COMMUNICATIONS AND NETWORKS**

Introduction to computer network high level protocols, internetworking techniques, client server architecture, API for Networking programming, High speed networks and ATM technology, Network management, Mobile and Wireless communication technology. The Important protocols for Internet in TCP/IP suit protocols will be discussed in detail.

Pre-requisite: None

### **CISC7004 CURRENT DEVELOPMENT IN DATABASE**

The course introduces Distributed DBMS architecture, distributed database design, semantic data control, distributed query processing, distributed transaction management, distributed concurrency control, distributed DBMS reliability, database interoperability, e-commerce application development and deployment with HTML, Web server, Java applet, CORBA, JavaBean, and DB server technologies.

Pre-requisite: None

### **CISC7005 COMPUTER SCIENCE SEMINAR**

Under the supervision of academic staff, students will search the literature for a topic in computing that is of interest to them, and give a presentation on the state of the art technology. Visiting researchers and staff members may also present their research work.

Pre-requisite: None

### **CISC7006 COMPILER CONSTRUCTION**

Design of compilers for block-structured general-purpose programming languages. Automatic generation of lexical analyzers and parsers. Error detection and correction. Code optimization.

Pre-requisite: None

### **CISC7007 DESIGN AND ANALYSIS OF ALGORITHMS**

Principles of design of efficient algorithms: recursion, divide and conquer, balancing, dynamic programming, greedy method, data structure selection. Correctness and analysis of algorithms. Examples drawn from problems in sorting, searching, set manipulation, pattern matching, graphs, matrices, polynomials, and integers.

Pre-requisite: None

### **CISC7008 COMPLEXITY THEORY**

Models of computation, such as Turing machines and random access machines; nondeterminism and alternation. Computable and noncomputable functions. Time and space complexity, complexity hierarchies, NP-completeness, and provably difficult problems. Proof techniques, such as simulation, diagonalization, and reducibility.

Pre-requisite: None

### **CISC7009 FORMAL METHODS IN SOFTWARE ENGINEERING**

Formal models and methods and their application in all phases of software engineering process; operational, algebraic, model-based and property-based specification methods; verification of consistency and completeness of specifications; verification of properties of software; specification construction and verification using method-based tools.

Pre-requisite: None

### **CISC7010 DISCRETE SYSTEM SIMULATION**

Principles of simulation of discrete, event-oriented systems. Model construction, simulation and validation; relationship to other techniques for system analysis and design.

Pre-requisite: None

### **CISC7011 COMPUTER SYSTEM PERFORMANCE MODELING**

Use of queuing network models as tools to evaluate the performance of centralized and distributed computer systems.

Pre-requisite: None

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**CISC7012    COMPUTER GRAPHICS - PRINCIPLES AND SYSTEMS**

This course introduces the generation of graphics by computers with or without human interaction. The contents include hardware and software of computer graphics, graphics modeling, graphical transformations, realistic image synthesis and illumination techniques, interactive methods and user interface, graphics programming languages and systems.

Pre-requisite: None

**CISC7013    PRINCIPLES OF ARTIFICIAL INTELLIGENCE**

Overview of Artificial Intelligence Application Areas, Languages and Programming Techniques for Artificial Intelligence, Problem Solving, Knowledge-based Systems, Knowledge Representation, Planning, Machine Learning, Natural Language Processing, Genetic Algorithms.

Pre-requisite: None

**CISC7014    ADVANCED TOPICS IN COMPUTER SCIENCE**

This course introduces students to advanced topics in Computer Science. The detailed contents may change from year to year depending on current developments and teacher specialization.

Pre-requisite: None

**CISC7015    ADVANCED TOPICS IN COMPUTER SCIENCE I**

To introduce the most advanced technologies in the field of Computer Science.

Pre-requisite: None

**CISC7016    ADVANCED TOPICS IN COMPUTER SCIENCE II**

To introduce the most advanced technologies in the field of Computer Science.

Pre-requisite: None

**CISC7017    PRINCIPLES AND APPLICATIONS OF CONCURRENT PROGRAMMING**

The aim of the course is to introduce the principles of concurrency and concurrent programming languages. The main contents are processes, concurrency, synchronous and asynchronous communication, non-determinism, shared variables and resources, deadlock, safety and liveness, event-driven multithreads, real-time distributed and concurrent systems, concurrent programming languages (Java, CSP).

Pre-requisite: None

**CISC7018    COMPUTER VISION AND PATTERN RECOGNITION**

This course introduces the fundamentals and advanced topics of computer vision and pattern recognition for postgraduate students. It emphasizes both theory and applications of pattern recognition. Topics include overviews of general computer vision and pattern recognition techniques, statistical decision theory, linear discriminant functions, multilayer neural and deep networks, supervised learning, unsupervised learning and clustering, and applications of computer vision and pattern recognition.

Pre-requisite: None

**CISC7019    WEB MINING**

The course will cover the fundamental concepts, principles and algorithms in the area of Web Mining. It will firstly give an introduction to the concepts of the traditional information retrieval systems and the principles of web search engines, then, the course will extensively discuss techniques and algorithms of web mining, including Link-Base analysis, web page classifications, web advertisement, recommendation algorithms, web information extractions, web image indexing. The course also requires each student to complete a related course project

Pre-requisite: None

### **CISC7021 APPLIED NATURAL LANGUAGE PROCESSING**

This course covers both the fundamental and advanced topics in Natural Language Processing (NLP), which deals with the application of computational models to text data. In this course, the core tasks in natural language processing will be examined, including minimum edit distance, language modelling, Naive Bayes, Maximum Entropy, text classification, sequence labelling, POS tagging, syntax parsing and computational lexical semantics. Modern NLP applications will be explored such as information retrieval, and statistical machine translation. Students will learn how to formulate and investigate research questions on related topics

Pre-requisite: None

### **CISC7022 BIG DATA PROCESSING AND ANALYSIS**

This course introduces the latest development of data engineering techniques, including data query processing (e.g., multi-dimensional data, sequence data, and spatial-temporal data) in cloud computing and HPC environments. Students will learn study and learn how to formulate and investigate the state-of-the-art problems and solutions on related topics.

Pre-requisite: None

### **CISC7023 INTRODUCTION TO BUSINESS PROCESS MANAGEMENT**

The course introduces students to the principles and methods of business process management. Topics include business process modeling foundation, process orchestrations, managing process flows, and process discovery techniques.

Pre-requisite: None

### **CISC7996 APPLIED THESIS**

An independent project under the supervision of a faculty staff member. An applied thesis focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or industrial project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

### **CISC7999 ACADEMIC THESIS**

An independent and original research study under the supervision of a faculty staff member. An academic thesis is a scholarly written document of a piece of original research on a particular topic in consistent with every detail of research methodology. In general, the study could result in a technical publication or a presentation at a professional meeting.

Pre-requisite: None

### **CISC7201 INTRODUCTION TO DATA SCIENCE PROGRAMMING**

This course is designed for students who are new to the world of data science. After the introduction of some basic arithmetic, variables, and data structures in Python, students will start to learn how to collect and extract data from real datasets. Some data analytical skills using the control flows and Python packages (e.g., NumPy, SciPy, Pandas, etc.) will be introduced. To address the needs of big data processing, some distributed computing frameworks (e.g., Spark) and visualization tools with Python will be discussed. Students may apply some basic learning algorithms with Python packages (e.g., scikit-learn) to extract knowledge from data.

Pre-requisite: None

### **CISC7202 TOOLS FOR MACHINE LEARNING**

The course will start from the very beginning of the ML basis. First, the basic concepts such as linear algebra; probability and information theory, and numerical methods will be introduced. Next machine learning overview, inductive learning, and representation learning will be introduced. Basic deep learning processes are designed as artificial neural network; Bayesian Networks and learning; Deep learning and deep neural networks; convolution neural network. Throughout the course, practical methodology of using tools such as Tensorflow or Karas etc. will be emphasized.

Pre-requisite: CISC7201

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### **CISC7203     DATABASE AND DATA MINING TECHNOLOGIES**

This course is designed to enable students to learn the database and data mining concepts and techniques for big data analytics and development in different domains. The course concentrates on the practical issues of database and data mining for solving big data problems. The content includes data modeling in database and data warehouse, SQL, Python programming for database, Python programming and R programming for data mining applications. Students will learn the skills of database modeling, querying, and programming, as well as the programming techniques for data mining.

Pre-requisite: None

### **CISC7204     DATA SCIENCE AND DATA VISUALIZATION**

This course is designed to enable students to learn the significance of data visualization in data science and big data analytics, and develop knowledge and skills to present quantitative data using data visualization tools. This course emphasizes on the practical aspects of data science with a focus on using R or Python programming language to process data, produce visualizations, and interpret these visualizations. Students will learn the practice of data cleaning, reshaping of data, basic tabulations, aggregations and visual representation in order to increase the understanding of complex data and models.

Pre-requisite: None

## ***Specialization A: Artificial Intelligence Applications***

### **CISC7013     PRINCIPLES OF ARTIFICIAL INTELLIGENCE**

Overview of Artificial Intelligence Application Areas, Languages and Programming Techniques for Artificial Intelligence, Problem Solving, Knowledge-based Systems, Knowledge Representation, Planning, Machine Learning, Natural Language Processing, Genetic Algorithms.

Pre-requisite: None

### **CISC7018     COMPUTER VISION AND PATTERN RECOGNITION**

This course introduces the fundamentals and advanced topics of computer vision and pattern recognition for postgraduate students. It emphasizes both theory and applications of pattern recognition. Topics include overviews of general computer vision and pattern recognition techniques, statistical decision theory, linear discriminant functions, multilayer neural and deep networks, supervised learning, unsupervised learning and clustering, and applications of computer vision and pattern recognition.

Pre-requisite: None

### **CISC7019     WEB MINING**

The course will cover the fundamental concepts, principles and algorithms in the area of Web Mining. It will firstly give an introduction to the concepts of the traditional information retrieval systems and the principles of web search engines, then, the course will extensively discuss techniques and algorithms of web mining, including Link-Base analysis, web page classifications, web advertisement, recommendation algorithms, web information extractions, web image indexing. The course also requires each student to complete a related course project.

Pre-requisite: None

### **CISC7021     APPLIED NATURAL LANGUAGE PROCESSING**

This course covers both the fundamental and advanced topics in Natural Language Processing (NLP), which deals with the application of computational models to text data. In this course, the core tasks in natural language processing will be examined, including minimum edit distance, language modelling, Naive Bayes, Maximum Entropy, text classification, sequence labelling, POS tagging, syntax parsing and computational lexical semantics. Modern NLP applications will be explored such as information retrieval, and statistical machine translation. Students will



learn how to formulate and investigate research questions on related topics.

Pre-requisite: None

### **CISC7022 BIG DATA PROCESSING AND ANALYSIS**

This course introduces the latest development of data engineering techniques, including data query processing (e.g., multi-dimensional data, sequence data, and spatial-temporal data) in cloud computing and HPC environments. Students will learn study and learn how to formulate and investigate the state-of-the-art problems and solutions on related topics.

Pre-requisite: None

### **CISC7998 PROJECT REPORT**

An independent project under the supervision of a faculty staff member. A Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or industrial project. The goal of this Project Report is to facilitate the integration of practice with academic research.

Pre-requisite: None

### **CISC7301 INTRODUCTION TO FINANCIAL TECHNOLOGIES**

The world of global tourism and entertainment, banking and financial services, as well as logistics and supply chain are changing rapidly with the emergence of start-up financial technologies, commonly referred to as FinTech, that are not only empowering or disrupting the status quo, but are shaping almost all the services industries. This course will discuss the scope of FinTech that defined by WeBank (ABCD) or by AntFinance (BASIC) as well as how they changed the way people live, how companies operate, and how government regulate. This course will provide students with the latest empowering and practical knowledge on FinTech enabling them to understand some FinTech changes taking place currently and the trends that will impact different industries in the future.

Pre-requisite: None

### **CISC7302 ALGO TRADING AND HIGH FREQUENCY TRADING**

Program trading and high frequency trading (HFT) have become important to the financial industry that it generated over sixty percent of trading volume at Nasdaq and NYSE. There are wide range of activities that AI and big data can support in such trading process, which include opportunities identification, cost/friction estimation, market impact estimation, trading strategies selection, trade scheduling, capital and liquidity management, as well as risk management. In this course, we will discuss both traditional financial engineering models and modern AI, especially the machine learning and deep learning, that can be used in supporting Algo Trading. Modern topics like RoboAdvisor, AlphaGo Zero, and social media based market sentiment analysis will also be discussed.

Pre-requisite: None

### **CISC7303 CLOUD COMPUTING**

This course will introduce Cloud Computing and relevant technologies in designing and implementing large-scale and composite business web applications on Cloud Computing platform. Topics covered include Software-as-a-Service (SaaS), Platform-as-a-Service (PaaS), Infrastructure-as-a-Service (IaaS), Data-as-a-Service (DaaS), and Cloud Computing Ecosystem. This course will cover scalable computing services in a pay-as-you-go model and Cloud Computing approaches for development and deployment of web services and information systems. This course will also introduce computer network high level protocols, internetworking techniques, client server architecture, API for Networking programming, High speed networks and ATM technology, Network management, Mobile and Wireless communication technology. The Important protocols for Internet in TCP/IP suit protocols will be discussed in detail. Students will study state-of-the-art solutions for cloud computing developed by Google, Amazon, Microsoft, Tencent Cloud, and Aliyun (Ali Cloud), etc.

Pre-requisite: None

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**CISC7998 PROJECT REPORT**

Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will learn systematic problem-solving process skills, professional research and development practices, and project management skills. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

**CISC7401 ADVANCED MACHINE LEARNING**

This course introduces advanced Machine Learning theories, methodologies, algorithms, application tools, and programming tools.

Pre-requisite: None

**CISC7402 MATHEMATICS FOR ARTIFICIAL INTELLIGENCE**

This course gives an introduction of mathematical background related to Artificial Intelligence to the students. The detailed contents may change from year to year depending on current developments and teacher specialization.

Pre-requisite: None

**CISC7403 CLOUD AND DISTRIBUTED SYSTEMS**

This graduate-level course introduces distributed systems and cloud computing areas focusing on system design and performance analysis. This course will also introduce state-of-the-art cloud solutions implemented in real systems.

Pre-requisite: None

**CISC7404 SPECIAL TOPICS IN ARTIFICIAL INTELLIGENCE**

This course introduces special topics and advanced technologies in Artificial Intelligence. The detailed contents may change from year to year depending on current developments and teacher specialization.

Pre-requisite: None

**CISC7498 PROJECT REPORT**

Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will learn systematic problem-solving process skills, professional research and development practices, and project management skills. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

**ECEN7001 INTRODUCTION TO RESEARCH**

This is one of the fundamental courses in the Electrical and Electronics Engineering Master of Science Programme and is intended that it will provide the student with the basic knowledge about what is the research of one specific topic in the specialized areas of Power, Control or Electronics leading the student to make a survey on that topic and afterwards to write a report about it. This report will serve as an important basis for the future Thesis research work (that is the reason why it is mandatory). The responsibility of supervising this course is given to the student's Supervisor.

Pre-requisite: None

**ECEN7002 ADVANCED MATHEMATICS**

Laplace Transform. Transforms of Derivatives and Integrals. s-Shifting, t-Shifting, Unit Step Function, Dirac's Delta Function, Differentiation and Integration of Transforms, Convolution, The Heaviside Expansion Theorem, Periodic Functions. Fourier Series, Half-Range Expansion, Complex Fourier Series. Fourier Integrals. Fourier Transform. Series Solution of Differential Equations, Legendre Polynomial, Bessel Functions. Sturm-Liouville Problem, Eigenfunction Expansions. Partial Differential Equations. Separation Variables, Use of Fourier-Bessel Series,

Use of Fourier-Legendre Series. Solution by Laplace Transforms, solution by Fourier Transforms.

Pre-requisite: None

### **ECEN7003 MICROELECTRONIC CIRCUIT DESIGN**

The primary goal of this course is to introduce basic electronic principles needed by the integrated circuit designer and to discuss engineering tradeoffs and practical considerations that are necessary for the student to make the transition from the classroom to industry as an integrated circuit designer. After the introduction of these principles, some basic circuits either digital or analog are presented together with one real advanced VLSI CMOS process. The evaluation is composed by several assignment works of simulation and layout design of basic circuits in the beginning of the semester and after mid-term the students will make a real IC design that will be implemented in a Multi-Project Chip.

Pre-requisite: None

### **ECEN7004 DIGITAL SIGNAL PROCESSING**

Orthogonal expansions, z-transformation and its properties. Band limited signals and sampling theorem. Discrete-time systems. The design and realisation of digital filters. Non-recursive and recursive digital filtering. Multi-rate sampling. Auto-correlation and cross-correlation techniques. Matching filtering. Power frequency spectrum. Adaptive signal processing - random gradient method. The concept of Parametric Model and its applications for random signal power spectrum modern estimation, extraction and pattern recognition. Multi-channel signal processing by using Singular Value Decomposition (SVD). The introduction of Artificial Neural Networks.

Pre-requisite: None

### **ECEN7005 ACTIVE NETWORK THEORY**

Network Theory investigates the universal laws and the calculations of networks. Its contents, methods and style are always changed by the influence of era. Network analysis and synthesis has been transformed drastically, due to the emergence of digital computer and optimum method. And there are close and deep connections between network theory and system theory. Therefore, the basic achievements of the latter were introduced into the former, such as states, state equations and matrix algebra descriptions.

Pre-requisite: None

### **ECEN7006 ADVANCED TOPICS IN CONTROL SYSTEMS**

The course introduces the digital control system and intelligent control system. The topics discussed include modern design techniques for digital control system and fuzzy logic and control.

Pre-requisite: None

### **ECEN7007 ADVANCED TOPICS IN SIMULATION**

Simulation of electronic circuits with SPICE has replaced bread boarding as a powerful means of analyzing the performance of complex circuits (including IC circuits) and systems. Because of the huge number of devices contained in today's electronic circuits and systems, device model level has to be raised to a higher level, macro model in simulation. So macro modeling is a very powerful tool in simulation.

Pre-requisite: None

### **ECEN7008 EXPERT SYSTEMS**

In the past ten years research in the field of artificial intelligence has many important successes. One of the most significant has been the development of powerful expert or knowledge-based systems. In many world famous universities, the subject has already been treated as one of their core courses. We should of course attach importance to the subject in the making of our master training programme.

Artificial intelligence background (including intelligent supports of decision making, CIM and CA

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technologies). Problem analysis and selection. Knowledge acquisition. Knowledge representation. Reasoning under uncertainty. Selecting a development tool. Constructing the knowledge base. Knowledge-based technology. Verification, validation, and integration. Implementation and management strategies. Survey of electromechanical engineering and manufacturing applications. Case studies: samples of expert system development.

Pre-requisite: None

### **ECEN7009 MICROELECTRONICS FOR TELECOMMUNICATION AND SIGNAL PROCESSING**

The primary goal of this course is to present the most important functions that can be encountered in most of the applications in Telecommunications and Signal Processing. These functions that include, namely: Sampling, Discrete-Time and Digital Filtering and A/D and D/A Conversion, are presented both in theory and practice. The theory includes the basic fundamentals associated with each function and the practice comprises the presentation of different architectures for implementation, using for example Switched-Capacitor and Digital Techniques. The evaluation is composed by 4 laboratory works of simulation and electronic testing that will include the design of filters, A/D and D/A converters. The Software used for simulation includes the SWITCAP II programme (for functional SC-simulation) and the HSPICE programme (for electronic simulation at the transistor level). The Hardware used for electronic design and testing includes the MF10 (Integrated Switched-Capacitor Filter) and the Digital Signal Processor - Texas TMS 320C25.

Pre-requisite: None

### **ECEN7010 LASER AND SEMICONDUCTOR PHYSICS**

The course includes two parts. Part one introduces concepts and characteristics of laser principles, theories, operations and optic fiber. Other technologies for laser cavity and laser beam are covered. For part two, the objective is for engineering students to understand and to apply the knowledge of quantum physics to the semiconductor applications. Student learns elementary properties of semiconductor, energy bands structure, carrier properties, devices properties and various semiconductor fabrication techniques.

Pre-requisite: None

### **ECEN7011 ADVANCED TOPICS IN TELECOMMUNICATIONS**

This course is designed to introduce the key techniques in digital communications systems and wireless networks including source coding, channel coding, modulation, communication channels, performance evaluation, wireless cellular networks, WiFi, and IoT networks; Channel coding schemes including block codes and convolutional codes, basic modulation schemes including PSK, ASK, FSK, QAM and TCM, advanced communication techniques including MIMO, OFDM and edge computing are particularly introduced.

Pre-requisite: None

### **ECEN7018 FLEXIBLE ALTERNATIVE CURRENT TRANSMISSION SYSTEM**

The Flexible Alternative Current Transmission System and Distribution Flexible AC Transmission System (FACTS/DFACTS) are a new converging technology based on the Power Electronics, Control Theory and Power System for revolution of ever more efficient control and better utilization of power and energy in the existing systems. The FACTS offers an opportunity to enhance controllability, stability and power transfer capability of AC transmission systems with fastest control speed. DFACTS is the extended modern technique of FACTS to focus on the Custom issues or power line conditioning in the distribution site as well as the Information Technology's Electricity Issues. During the last decade, a number of control devices under the term FACTS/DFACTS technology have been proposed and implemented. This course provides a comprehensive guide to FACTS, covering all the major aspects in research and development of FACTS technologies. Various applications are also included to demonstrate the issues and benefits of applying FACTS. This course involved in the operation and control of modern power systems by FACTS technology.

Pre-requisite: None

**ECEN7019 EMBEDDED SYSTEM**

This is a project oriented course of Embedded System for postgraduate students. It emphasizes general concepts and design techniques of embedded system. Topics include overview of embedded system, real-time system, hardware and software co-design, and components selection.

Pre-requisite: None

**ECEN7020 ADVANCED TOPICS IN ANALOG AND MIXED-SIGNAL INTEGRATED CIRCUITS**

This course will provide a detailed discussion to the various types of analog and mixed-signal integrated circuits, e.g. data conversion and RF communication ICs, which are the key components in electronic systems. The performance characterization of data converters and RF circuits will be presented, and various types of data converters (including analog-to-digital and digital-to-analog) and RF building block (low-noise amplifier and mixer) will be discussed. The students are expected to complete several design and simulation projects with the implementation of the whole data converters and RF building blocks and the projects are expected to lead to chip fabrications for experimental verification.

Pre-requisite: None

**ECEN7021 BIOMEDICAL TRANSDUCERS AND INSTRUMENTS**

This essentially interdisciplinary course aims to introduce students the basic principles & techniques for biomedical transducers and instrumentations. This course covers sensing and measurement for qualitative description and quantitative analysis in biomedical engineering field mainly on noninvasive techniques.

Pre-requisite: None

**ECEN7022 ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE**

This course introduces principles, mathematical models and implementation of electrochemical energy conversion and storage. The principle of electrochemistry is introduced, including components of an electrolytic cell, Nernst's equation, thermodynamics and electrokinetics. The basic of power conversion is also introduced, including power electronics switches, converters and their control. The applications to batteries, solar cells, fuel cells and other emerging energy generation technologies are explored.

Pre-requisite: None

**ECEN7023 SPECIAL TOPICS IN BIOMEDICAL ENGINEERING**

The course will introduce a selected special topic in the Biomedical Engineering (BME) area, includes any specialized topic in BME chosen by the staff member who has experienced in that particular field, but the topic is not covered by other postgraduate courses. Students may register for this course multiple times as long as the topic is different.

Pre-requisite: None

**ECEN7024 MEDICAL IMAGING SYSTEMS**

The course aims to introduce the physics and principles of operation behind the major medical imaging systems including X-ray radiography, computed tomography (CT), magnetic resonance imaging (MRI), ultrasound (US) and nuclear medicine imaging (SPECT and PET). Image quality such as impulse response, signal-to-noise, resolution and its tradeoffs with system design for different imaging modalities will also be discussed.

Pre-requisite: None

**ECEN7025 MODELLING AND THEORETICAL ANALYSIS FOR COMMUNICATION SYSTEMS**

This course is designed to introduce fundamental knowledge on the several theoretic methods and how to use them to model and analyze different issues in communication systems such as resource allocation in mobile computing, routing in the networking, and protocol design in wireless communication systems. For instance, the strategic making decision can be used to

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analyze the task and resource allocation in mobile computing. The VCG auction can be used to analyze the shortest path routing problem in communication networks. Reverse auction can be used to design incentive mechanism in the mobile intelligent sensing network. Coalitional activity can be used to analyze the cooperative relay networks. By learning this course, students should have deep understanding on these theoretic analysis methods and have the capability of using these methods to mathematically model and analyze various interactive problems in communication systems. All of these are assessed in assignments, presentations and projects.

Pre-requisite: None

#### **ECEN7101 INTRODUCTION TO INTERNET OF THINGS**

This course introduces students to advanced topics in Internet of Things. The detailed contents may change from year to year depending on current developments and teacher specialization

Pre-requisite: None

#### **ECEN7102 ADVANCED TOPICS IN APPLIED PROBABILITY AND STATISTICS**

This course prepares students with the fundamental principles and methods in probabilities and statistics for machine learning and data sciences. It covers from first a review of basic concepts such as common distributions, conditional and joint distributions, covariance and correlation, central limit theorem, sampling, to classical theory in estimation, hypothesis testing and Bayesian inference, and some advanced topics for regression, clustering, classification and learning.

Pre-requisite: None

#### **ECEN7103 RFID PRINCIPLE AND APPLICATIONS**

This course provides students about radio frequency identification (RFID) information systems from hardware architecture, communication protocols to applications. Students will learn various types of RFID (e.g. HF, UHF RFID) technologies and different types of tags (i.e., active, passive, antenna polarizations, etc.), and their operating principles in hardware. The communication protocol for anti-collision and security enhancement will also be introduced. This course brings out various examples of both prevalent and emerging applications, to allow the students to obtain an idea of the potential applications in IoT such as item tracking and tracing, inventory monitoring and control, asset monitoring and management, anti-theft, electronic payment, access control, anti-counterfeit, smart tags.

Pre-requisite: None

#### **ECEN7104 ADVANCED INTEGRATED CIRCUIT DESIGN FOR INTERNET OF THINGS**

This course targets to provide an overview of the enabling integrated circuit design techniques for the development of energy constrained Internet of Things (IoT) systems. The fundamental building blocks in an IoT system will be systematically introduced, including the analog interface, power management circuits, energy harvesting modules, analog-to-digital converters, short-range radios, digital architecture, non-volatile memory, hardware security and battery/packaging. Advanced circuit design techniques targeting for ultra-low power consumption to fulfill the application level requirements will also be introduced.

Pre-requisite: None

#### **ECEN7105 EMBEDDED SYSTEMS FOR INTERNET OF THINGS APPLICATIONS**

This is a project oriented course for IoT related smart applications, especially the sensors for collecting data/information. It emphasizes the multi-tasking and time-driven programming for real-time applications. Topics include overview of embedded systems, time-driven multi-tasking programming, hardware and software co-design, and sensors interfaces.

Pre-requisite: None

#### **ECEN7106 CONVEX OPTIMIZATION FOR INTERNET OF THINGS APPLICATIONS**

This course focuses on convex optimization with applications to wireless communication systems, information theory, signal processing, control systems and machine learning. The first

part will be on the theory of convex optimization--recognizing convex sets, convex functions, convex optimization problems and duality. The second part of the course will be on algorithms for solving convex optimization problems. This course is crucial to students and researchers in the above fields of engineering.

Pre-requisite: None

### **ECEN7107 DATA ANALYSIS FOR INTERNET OF THINGS**

This course is an introductory course on data analytics and its application in IoT. It covers three major topics: 1) Primary data analytics theory including classification, regression, principal component analysis, etc.; 2) Hands on data analytics experiences with NumPy, Pandas, Matplotlib, & Scikit-learn packages; and 3) Applications in IOT (with a special example on buildings energy systems), in which comprehensive experiments with real data will be included. In this course, students will learn systematic knowledge on data analytics and Python. They will also gain solid hands-on experiences in using Python to analyze IOT data.

Pre-requisite: None

### **ECEN7108 ADVANCED TOPICS IN INTERNET OF THINGS**

This course introduces students to advanced topics in Internet of Things. The detailed contents may change from year to year depending on current developments and teacher specialization.

Pre-requisite: None

### **ECEN7197 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

### **ECEN7198 PROJECT REPORT**

Project Report is distinguished from the Academic Thesis by its focus on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

### **ECEN7996 APPLIED THESIS**

An independent project under the supervision of a faculty staff member. An applied thesis focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or industrial project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

### **ECEN7998 PROJECT REPORT**

Project Report is distinguished from the Academic Thesis by its focus on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

### **ECEN7997 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor

Pre-requisite: None

### **EMEN7002 PHYSICS OF MATERIALS**

Atomic Theory: Hydrogen atom, Angular momentum and Pauli Exclusion Principle, Energy

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levels of atom, Energy bands, Fermi energy. Defects of materials. Dislocation: Edge dislocation, Screw dislocation, Burgers vector, Dislocation density, Elastic property of dislocation, Force on dislocation, Stress field and strain energy of dislocation, Dislocation motion and interaction, Dislocations in real crystal, Dislocations observation. Atomic structures and properties of some new materials.

Pre-requisite: None

### **EMEN7003 VARIATIONAL PRINCIPLES AND THE APPLICATION**

Principle of minimum potential energy; Principle of minimum complementary energy; Ritz method; Galerkin method; Kantonowitch method; Trefftz method; Hellinger-Reissner principle; Hu-washizu principle; Lagrange multiplier; High order Lagrange multiplier; Variational principle of non-linear elasticity; Methods for establishing generalized variational principle; Variational principle and the relating theorems in limit analysis; Applications for FEM, for limit analysis, for to find solutions and for to derive formulas; Developments in research work.

Pre-requisite: None

### **EMEN7006 MECHATRONICS**

Mechanical system interfacing; Combinational digital logic; Synchronous sequential logic; Asynchronous sequential logic; Register transfer logic; Embedded control computers; Analog digital conversion; Position and velocity measurement; Operational amplifiers for analog signal processing; Power amplifiers.

Pre-requisite: None

### **EMEN7007 PROCESS HEAT TRANSFER**

Application of fundamental principles of single- and two-phase fluid dynamics and heat transfer to the design and analysis of different types of heat exchangers, such as double pipe heat exchangers, shell and tube heat exchangers, fin-plate heat exchangers, cross flow heat exchangers.

Pre-requisite: None

### **EMEN7008 CONVECTIVE HEAT TRANSFER**

Convective heat transfer occurs in almost all branches of engineering applications. This course will cover the followings. The equation of convective heat transfer, the differential equation for the boundary layer, the integral equation of the boundary layer, momentum and heat transfer for the laminar internal and external flow, the momentum and heat transfer for the turbulent internal and external flow, natural and mixed convections.

Pre-requisite: None

### **EMEN7009 COMPUTATIONAL METHOD FOR THERMO-FLUID SYSTEM**

The purpose of this course is to use computational method to investigate heat transfer and fluid flow and other related processes that occur in engineering equipment. This course will cover: Discretization method. Explicit and implicit methods for heat conduction. Upwind, exponential, hybrid and power-law schemes for convection. Calculation of flow field use various algorithms.

Pre-requisite: None

### **EMEN7010 ENERGY CONVERSION AND UTILIZATION**

Renewable energy resources. Solar energy, wind power, wave and tidal power, geothermal energy, hydroelectric power. Environmental assessment of alternative energy resources.

Conventional energy resources, fossil fuel in solids, liquid and gaseous states. Nuclear energy. Energy analysis, energy economics, energy and society. Energy and the third world, energy conservation and energy policies.

Pre-requisite: None

### **EMEN7011 ADVANCED ROBOTICS AND CONTROL**

Analyzes kinematic characteristics of planar and spatial manipulators. Differential kinematics and statics. Dynamics. Trajectory planning. Introduction to feedback control of physical system



behavior. State-space and functional descriptions of linear and nonlinear systems. Feedback, stability, and robustness. Design of PID controllers and compensators. Interaction control. Actuators and sensors. Robot control architecture.

Pre-requisite: None

#### **EMEN7014 FLUID POWER ENGINEERING**

Basics of fluid flow and hydro-mechanics. Advanced pneumatic power systems. Advanced hydraulic power systems. Fluidics. Fluid logic control circuits. Modelling of fluid power systems. Fluid power system control. Dynamic analysis and simulation of fluid power systems. Fluid power plumbing and maintenance.

Pre-requisite: None

#### **EMEN7017 SPECIAL TOPICS IN MANUFACTURING I**

Laser physics, types of lasers and laser radiation for material processing, laser hazards & safety, laser optics and beam delivery systems, laser beam interaction with materials, laser materials processing: laser surface engineering, laser cutting, laser welding, laser drilling, laser marking, laser selective sintering.

Pre-requisite: None

#### **EMEN7018 SPECIAL TOPICS IN MANUFACTURING II**

In industry, material degradation of components and equipment arises from one or more of the three modes: wear, corrosion and fracture. The lifetime of the component is determined by the interaction among materials properties, component design, and the application conditions. This course intends to give a comprehensive knowledge on materials degradation and preventive methods by surface engineering. In addition, the fabrication of microelectronic devices will also be introduced in this course. This course focuses on the following topics: Surfaces: Their Nature, Roughness & Characterization; Corrosion; Tribology; Friction, Wear & Lubrication; Surface Treatment & Coating Technology.

Pre-requisite: None

#### **EMEN7019 SPECIAL TOPICS IN THERMAL ENGINEERING I**

To introduce the most advanced technologies in the field of thermal engineering according to recent literatures/ publications in indoor air quality, ventilation and energy saving and advanced HVAC systems.

Pre-requisite: None

#### **EMEN7020 SPECIAL TOPICS IN THERMAL ENGINEERING II**

To introduce the most advanced technologies in the field of thermal engineering according to recent literatures/ publications in single and multi-phase heat transfer and its applications.

Pre-requisite: None

#### **EMEN7021 AUTOMOTIVE ENGINEERING**

Introduction to road vehicles. Modern internal combustion (IC) engine construction. Fuels and combustion. Thermodynamic analysis of IC engines. Advances in IC engines. Electronic fuel injection. Variable valve actuation. Turbocharging and supercharging. Advanced electronic control technology. Emission control. Engine characteristics and performance measurement. Engine trouble-diagnosis. Advanced automotive drive trains, braking, steering and suspension systems. Safety devices. Racing technology. Vehicle aerodynamics. Chassis engineering. Automobile mechanics.

Pre-requisite: None

#### **EMEN7022 FAILURE ANALYSIS IN MECHANICAL ENGINEERING**

This course presents theories for preventing/mitigating the failure modes that are most frequently encountered in mechanical engineering. These include fatigue, stress concentration, fracture, creep, impact, buckling, wear, residual stresses, etc. This course shall cover such important design tools as: linear fracture mechanics, the various widely-used rules for

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predicting fatigue strength, models for predicting crack growth, the most important criteria for yield failure, and so forth. Case studies (such as the effects of residual stresses on the failure of railway rails) that involved the various failure modes shall be discussed, with an eye to reinforcing the students' ability in applying the various theories.

Pre-requisite: None

#### **EMEN7023 ADVANCED ELECTRICAL SERVICES**

- To introduce the most advanced technologies in the field of electrical services engineering according to recent literatures and publications.
- To introduce the fundamentals in design of vertical transportation, security, lighting and energy storage systems.
- To enable students to understand the major design features, operating characteristics and functions of facilities used in electrical building services.

Pre-requisite: None

#### **EMEN7024 ADVANCED ELECTROMECHANICAL ENERGY CONVERSION**

- To provide students understanding of various advanced electromechanical energy conversion systems, including the operating principles, performance characteristics and applications.
- To provide students knowledge in the selection, operation and control of electric machines.
- To ensure the students to develop an understanding of various variable speed drive systems and their applications

Pre-requisite: None

#### **EMEN7025 HUMAN FACTORS ENGINEERING**

Students will gain an understanding of the basic theoretical concepts, principles and techniques of ergonomics as well as an introduction to fundamental ergonomic measurement tools for assessment of physical workload, posture, occupational exposure, and stress. The topics include systems design and task analysis, muscle use and anthropometry, workspace design, activity-related soft tissue disorders, back injuries, shiftwork, organizational and psychosocial aspects of work, skilled work and mental activity and regulations in ergonomics. The professional software such as "HumanCAD" is introduced for supporting ergonomic systems design and task analysis. The students are required to complete a related course project.

Pre-requisite: None

#### **EMEN7027 ENGINEERING ACOUSTICS**

This course is to develop students' understanding of fundamentals of acoustics and its applications. Through this course students should be capable of modeling and analyzing engineering acoustics problems. Topics include: Fundamentals of vibrations. Vibration of continuous bodies (string, bar, plate). Acoustics wave equation. Acoustics impedance, power, and intensity. Spectral descriptions of acoustics. Transmission and reflection of sound. Acoustic radiation. Room acoustics. Introduction of acoustics and vibration measurements. Introduction of boundary element method.

Pre-requisite: None

#### **EMEN7028 ADVANCED ELECTRIC VEHICLES**

This course will introduce the electrical and mechanical aspects of EVs, including the fundamentals, design, control, modeling, battery and other energy storage, electric propulsion systems. It will cover vehicle dynamics, energy sources, electric propulsion systems, regenerative braking, parallel and series hybrid electric vehicle (HEV) design, EV charging and infrastructure, impacts to environment and economy, and practical design considerations.

Pre-requisite: None

#### **EMEN7029 SPECIAL TOPIC IN ELECTROMECHANICAL ENGINEERING I**

Any specialized topic in Electromechanical Engineering chosen by staff member who has

experience in that particular field, but the topic is not covered by the other postgraduate courses in the MSc. programme.

Pre-requisite: None

### **EMEN7030 SPECIAL TOPIC IN ELECTROMECHANICAL ENGINEERING II**

Any specialized topic in Electromechanical Engineering chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses in the MSc. programme.

Pre-requisite: None

### **EMEN7031 MICROMECHATRONICS AND APPLICATIONS**

Micro/nanotechnology has become very important in creating innovative technologies in the fields of ultrahigh precision mechatronics, bio-medical engineering and energy/environmental technology. This course introduces fundamental aspects of micromechatronics. It involves scaling laws at the micro/nano-scales, electrostatics, piezoelectrics, electromagnetism, measurement tools, materials and fabrication methods, diverse micromechatronic systems and their applications.

Pre-requisite: None

### **EMEN7032 INTELLIGENT THEORY AND ENGINEERING APPLICATIONS**

This course introduces the fundamentals of intelligent system technologies and their engineering applications. It will present the principles of knowledge-based systems, fuzzy logic and artificial neural networks and explore how manufacturing and automation could benefit from application of these technologies. It will also discuss the representation of knowledge, knowledge acquisition, decision making mechanism, learning and machine learning, as well as its applications in various engineering domains.

Pre-requisite: None

### **EMEN7033 INDUSTRIAL ENGINEERING AND ENGINEERING MANAGEMENT**

This course is intended to introduce to the concepts of supervision and management in an engineering environment. Design of Work Systems, Facilities design and planning, Operation Management, Knowledge Management, Supply Chain Management, Materials and Inventory Management, Logistical Management, Enterprise Resource Planning, and Decision Making System are studied as part of the course. Skills on analytical problem solving, statistical thinking and creativity are essential. The course project is required to apply Industrial Engineering (IE) and Engineering Management (EM) technology in solving the critical problems for the industries.

Pre-requisite: None

### **EMEN7034 THEORIES AND PRACTICE OF CAD/CAM/CAE**

This course studies modern design and manufacturing techniques in the computer-based environment. It is designed to address the key issues in product development with the goal of providing the future engineers with a thorough understanding of the concepts and technologies in CAD/CAM/CAE. The major focus of the course will be computer graphics, geometric modeling, design reuse, feature recognition, process planning, NC path planning, rapid prototyping, engineering optimization, and computer integrated manufacturing.

Pre-requisite: None

### **EMEN7035 PRODUCT DESIGN AND MANAGEMENT**

Innovation management and new product development are critical for improving the competitiveness of economies and firms. This course presents and utilizes multi-disciplinary approaches to cover different aspects of product design innovation and development management. The topics include innovation management, product design and optimization, design principle and process (design for manufacturability/environment/usability/X, axiomatic design, robust design, etc), product portfolio management, product life cycle management and design collaboration, etc.

Pre-requisite: None

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**EMEN7036 MODELING AND ANALYSIS OF PRODUCTION SYSTEMS**

The complexity of the design and control problems encountered in the modern production system is increasing. This course introduces modeling and analysis methods for linking decision and performance throughout the production system. The methods could be used to support analysis of alternative manufacturing material/service strategies. The fundamental production operation issues will be discussed, ranging from serial systems, mass customization, quality control, group technology, cellular manufacturing, facility management, layout planning and material handling systems, etc.

Pre-requisite: None

**EMEN7037 ADVANCED MATHEMATICS FOR ELECTROMECHANICAL ENGINEERING**

First-order Ordinary Differential Equation; Second-order Ordinary Differential Equation; Fourier Series, Integrals, and Transforms; Analytical Solution of Partial Differential Equations: Heat Equation, Wave Equation, Circular Membrane, Laplace's Equation, Poisson's Equation; Complex Analytic Functions; Complex Integration; Power Series; Taylor Series; Laurent Series; Residue Integration Method; Numerical methods in Linear algebra with Matlab; Numerical Methods for Differential Equations with Matlab.

Pre-requisite: None

**EMEN7038 MECHANICAL PROCESSING OF MATERIALS**

Mechanical processing technologies are amongst the eldest manufacturing processes used by mankind. These processes are multi-discipline activities that require knowledge from different engineering areas. The methods for analysing these processes seek to integrate this multi-disciplinary aspect to obtain analytical or numeral solutions for the distribution of main field variables in the interior of the parts and the tool-part contact surfaces, resulting in a group of essential elements for design, project and optimization of parts and tools, aiding future engineers to cultivate a critical spirit on analysing the results and purpose alternative manufacturing solutions.

Pre-requisite: None

**EMEN7039 PROGNOSTICS AND HEALTH MANAGEMENT OF ENGINEERING SYSTEMS**

This course provides the concepts and methods of prognostics and health management (PHM) of engineering system, which describes PHM techniques and their applications in engineering systems. A variety of tools and techniques for developing health management and monitoring of components and systems will be discussed. Topics related to sensor signal acquisition, data pre-processing techniques, various signals processing methods for feature extraction, machine learning methods and data driven prognostics models. After successfully completing this course, students will have a good understanding of system health monitoring, optimum sensor placement for health assessment, and current challenges and opportunities in the PHM field.

Pre-requisite: None

**EMEN7101 INTRODUCTION TO MOBILE ROBOTICS**

This course aims at teaching students basic knowledges and more recent advances on mobile robotics, such as robot sensing, localization, mapping, and motion planning.

Pre-requisite: None

**EMEN7102 INTRODUCTION TO SENSORS AND ACTUATORS**

Introduction to sensors and actuators, especially flexible devices. These sensors and actuators have wide applications in wearable electronics, Internet of Things, robotics, and mobile health, etc. This course prepares students to work professionally in academic researching or companies focusing on advanced technology.

Pre-requisite: None

**EMEN7103 AERIAL ROBOTICS**

This course aims to introduce students to the fundamental concepts involved in the design and

operation of aerial robots, visiting the topics of rotorcraft modelling, navigation guidance and control, as well as motion planning. In particular we will derive dynamic models of robotic quadrotors, discuss the available sensors to be installed onboard and sensor fusion techniques rooted on the concepts of Kalman Filtering for linear and nonlinear systems, present methods for aerial robot control with stability analysis, and basic algorithms for efficient robot motion in unstructured environments. Finally, some applications are presented and future uses of aerial robots are discussed.

Pre-requisite: None

#### **EMEN7104 SPECIAL TOPICS IN ROBOTICS**

Any specialized topic in Robotics chosen by staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses in the MSc. programme.

Pre-requisite: None

#### **EMEN7105 SPECIAL TOPICS IN AUTONOMOUS SYSTEMS**

This course will give students an in-depth perspective on the most advanced techniques and algorithms currently used in wheeled mobile, aerial, space, and ocean autonomous robots, working in unstructured environments. These techniques will include recent results from machine vision, robotic image and video processing, sensor-based control for autonomous robots, sensor fusion for robot pose estimation, advanced nonlinear motion estimation and control, simultaneous localization and mapping, learning and deep neural networks, perception and compliance of human behaviour, and advanced robotic trajectory tracking and path planning. Case studies of successful algorithms employed in single and multiple autonomous robots will be presented and discussed.

Pre-requisite: None

#### **EMEN7198 PROJECT REPORT**

Project Report is a task of the capstone project focusing on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will be asked to select a topic, or an engineering problem that arouses their interests, conduct literature review and research on the topic, design the experimental or testing methodology, acquire a portfolio of findings or results, create a final product or a written report demonstrating their learning acquisition or conclusions and finally give an oral presentation on the capstone project to a panel who collectively evaluate the quality of the task.

Pre-requisite: None

#### **EMEN7997 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

#### **EMEN7998 PROJECT REPORT**

Project Report is distinguished from the Academic Thesis by its focus on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

#### **MATH7001 FUNCTIONAL ANALYSIS**

The first level of abstract analysis is about operators and, in particular, functionals, in linear normed and Banach spaces, and in Hilbert spaces. Besides the basic concepts the course will finally rest on the three corner stone theorems, viz., the Hohn-Banach theorem of Extension of bounded linear functional in linear normed spaces, the resonance theorem (Banach-Steinhaus Theorem) and the open mapping theorems (the closed range theorem).

Pre-requisite: None

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**MATH7002 REAL ANALYSIS**

Based on the concept completeness of the real number system this course systematically extends the length concept for intervals to general measurable sets. Based on the concept measurable sets and their measures the course introduces measurable functions and its subclass integral functions and their integration. In such way completeness of Lebesgue integrable functions extending Riemann integration is established. This develop analysis is indispensable.

Pre-requisite: None

**MATH7003 ADVANCED NUMERICAL LINEAR ALGEBRA**

Direct methods for solving linear systems. Iterative methods for solving linear systems. Sparse matrix computations. Eigenvalue problems. Least squares problems. Toeplitz solvers.

Pre-requisite: None

**MATH7004 ADVANCED PROBABILITY AND STATISTICS**

This course studies advanced theory such as law of large number, central limit theorem and Poisson limit theorem with their applications in Statistics.

Pre-requisite: None

**MATH7005 CLIFFORD ANALYSIS**

Clifford algebras, spinors, elementary geometric algebra, Dirac differential operators, monogenic (Clifford analytic) functions, Taylor and Laurent series for monogenic functions, CK extensions of real analytic functions, Cauchy integrals, generalized exponential functions and Hardy spaces, singular Cauchy integrals and Plemelj formulas.

Pre-requisite: None

**MATH7006 GEOMETRY AND ITS APPLICATIONS**

This is a research oriented course related to one of the following 3 areas in geometry: algebraic geometry, differential geometry, or even computational geometry. The topics can be different from year to year, depending on the instructors' interest. The instructor can also discuss the materials from some current topics, or some topics in his or her research area. The instructor can develop the theory toward the geometric application as well.

Pre-requisite: None

**MATH7007 MATHEMATICAL THEORY OF COMPUTATIONAL INTELLIGENCE**

Mathematical model of neurons and neural networks, learning of ANN, optimization methods for error function, Backpropagation learning methods, Approximation theory of ANN and applications. Evolutionary algorithms and their convergence theorem.

Pre-requisite: None

**MATH7008 MATRIX ANALYSIS**

Similarities and canonical forms of matrices. Normal, Hermitian and positive definite matrices. Matrix norms. Inequalities of eigenvalues and singular values.

Pre-requisite: None

**MATH7009 NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS**

In this course, we focus on the numerical methods for solving the ordinary and partial differential equations. The main contents include single and multi-step methods for ordinary differential equations; finite difference method, finite element method, spectral method for partial differential equations; the related numerical analysis; quality programming for the numerical algorithm.

Pre-requisite: None

**MATH7010 PARTIAL DIFFERENTIAL EQUATIONS**

This course provides some knowledge on partial differential equations. It includes the study of Fourier transformation and translation invariant operators. Characteristic theory of linear

equations will be given. Various boundary value problems for homogeneous wave equations, Laplace equations and parabolic equations will also be studied.

Pre-requisite: None

#### **MATH7011 READING COURSE I**

For individual students or a group of students. Self-study of specific topics under the guidance of a supervisor.

Pre-requisite: None

#### **MATH7012 READING COURSE II**

For individual students or a group of students. Self-study of specific topics under the guidance of a supervisor.

Pre-requisite: None

#### **MATH7013 STOCHASTIC DIFFERENTIAL EQUATIONS**

This course starts from reviewing the basic probability theory and stochastic processes such as Markov chains, Poisson processes and so on, and then studies Brownian motions, Ito formula, Ornstein-Uhlenbeck process, growth models, Black-Scholes equations and some applications of stochastic differential equations in Finance and biology.

Pre-requisite: None

#### **MATH7014 STOCHASTIC PROCESSES**

Gaussian processes, stationary processes, Markov chain and Markov processes. Stochastic processes with independent increments, Brownian motions, martingales and semi-martingales.

Pre-requisite: None

#### **MATH7015 TIME SERIES ANALYSIS**

This module introduces methods for analyzing the time series data. Topics include: Stationary random processes, Autocovariance and autocorrelation functions, Discrete parameter models, Purely random processes, Autoregressive processes (first order, second order, general orders), Moving average processes, ARMA processes, General linear processes, Harmonic processes, Stochastic limiting operations and standard continuous parameter models, etc. This module is targeted at students who are interested in time series and are able to meet the prerequisite.

Pre-requisite: None

#### **MATH7016 TOPICS IN ANALYSIS**

Selected topics in analysis. The content may vary from year to year.

Pre-requisite: None

#### **MATH7017 TOPICS IN GEOMETRY**

Selected topics in geometry. The content may vary from year to year.

Pre-requisite: None

#### **MATH7018 TOPICS IN MATRIX ANALYSIS**

Selected topics in matrix analysis. The content may vary from year to year.

Pre-requisite: None

#### **MATH7019 TOPICS IN PARTIAL DIFFERENTIAL EQUATIONS**

Selected topics in partial differential equations. The content may vary from year to year.

Pre-requisite: None

#### **MATH7020 TOPICS IN PROBABILITY AND STATISTICS**

Selected topics in probability and statistics. The content may vary from year to year.

Pre-requisite: None

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**MATH7021 FINANCIAL MATHEMATICS**

Introduction to option pricing and the Black-Scholes model. Introduction to martingale theory and stochastic calculus, the Cox-Ross-Rubinstein model, and the martingale method in option pricing. Backward stochastic differential equations and option pricing. Consumption-investment strategies, and maximization problems of utilities in financial markets. Other updated topics in financial mathematics.

Pre-requisite: None

**MATH7998 PROJECT REPORT**

An independent project under the supervision of a faculty staff member. A Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or industrial project. The goal of Project Report is to facilitate the integration of practice with academic theory.

Pre-requisite: None

**OCES7001 OCEAN REMOTE SENSING**

This course is designed to introduce students to important concepts and fundamental principles in remote sensing and applications in oceans and coastal environments. Topics cover sensors, microwaves, image analysis and applications of remote sensing in oceans and coastal area.

Pre-requisite: None

**OCES7002 PHYSICAL OCEANOGRAPHY**

This course will introduce the physical oceanographic objectives, concepts, and processes in the ocean to students with a broad background in mathematics and physics. It starts from learning properties of seawater and the basic oceanographic phenomena, then developing the basic equations which describe the principles upon which physical oceanography is based. The principles will help to understand the waves, tides, effect of earth rotation, Ekman dynamics and the large-scale circulation. The student will learn the fundamental concepts for describing and modelling currents, waves, and understand their role in the climate system.

Pre-requisite: None

**OCES7003 OCEAN ACOUSTICS**

This course is designed to introduce students to important concepts and fundamental principles in oceans acoustics. Topics cover acoustic wave propagation, reflection and transmission in fluid media, ray tracing and normal modes methods for solving wave equation, central basic methods and problems relevant for the use of sound in marine environments, as well as the principle of designing underwater acoustic systems.

Pre-requisite: None

**OCES7004 OCEAN SENSORS**

This course is designed to introduce students to functional principle of different types of sensors, mathematical-scientific and informatics-based measuring methods as well as data acquisition systems and models. Topics cover introduction to ocean sensors, fundamental principles of sensor operation, design and construction of ocean sensors and application in ocean environments, challenges and innovations.

Pre-requisite: None

**OCES7005 MARINE ROBOTICS AND APPLICATION**

This course introduces the broad spectrum of marine vehicles and their application in oceans, the fundamental principles of maritime robotics such as autonomous underwater and surface vehicle, as well as theoretical and practical design of robotics.

Pre-requisite: None

**OCES7006 SPECIAL TOPICS IN OCEAN OBSERVATION AND MODELING**

This course is designed to introduce students to tools, technologies, and data that covers all major aspects of measurements of physical, chemical and biological parameters in oceans, as



well as ocean models.

Pre-requisite: None

### **OCES7007 SPECIAL TOPICS IN UNDERWATER COMMUNICATION AND NETWORKS**

This course is designed to introduce students to communication technologies of underwater wireless communication, such as acoustic communication, optical communication, and magneto-inductive communication. Topics cover basics fundamentals, advantages and disadvantages, and applications of underwater communication technologies.

Pre-requisite: None

### **OCES7008 MACHINE LEARNING AND APPLICATIONS IN OCEAN SCIENCE**

This course covers the fundamental tools and techniques for machine learning and their applications in ocean science. Students will learn how to analyze large amounts of data to identify patterns and trends, and understand the implications of these findings in ocean science.

Pre-requisite: None

### **OCES7197 INTERNSHIP AND REPORT**

An independent project in cooperation with industry carried out under the supervision of a faculty staff member and co-supervised by an industrial supervisor.

Pre-requisite: None

### **OCES7198 PROJECT REPORT**

Project Report focuses on combining existing academic theories or advanced technologies with an evaluation of a case study or academic project. Students will learn systematic problem-solving process skills, professional research and development practices, and project management skills. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

## **BACHELOR'S DEGREE PROGRAMMES**

### **APAC1000 ADVANCED MATHEMATICS I**

The course aims at providing mathematical concepts and methods to students in the study of classical mechanics, electromagnetism, quantum mechanics as well as statistical mechanics. The topics will cover linear algebra, vector calculus, special functions, complex numbers and hyperbolic functions.

Pre-requisite: None

### **APAC1001 COLLEGE PHYSICS**

In this part, mechanics included rotation, gravitation, elasticity, oscillation, waves, sound waves, fluid, gas theory and laws of thermodynamics will be introduced.

Pre-requisite: None

### **APAC1002 ELECTROMAGNETISM AND PHYSICAL OPTICS**

In this part, Electromagnetism will be introduced in terms of forces, fields, potential, laws, current, circuits, induction, circuit components, electromagnetic waves, light, geometric optics, interference and diffraction.

Pre-requisite: None

### **APAC1003 INTRODUCTION TO COLLEGE CHEMISTRY**

This course addresses the basic concepts of chemistry through lectures and laboratory experiments. Topics include: atoms and molecules, periodic table, electronic structure, chemical bonding, chemical reactions, electrochemistry, and organic chemistry.

Pre-requisite: None

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**APAC2000    ADVANCED MATHEMATICS II**

The course is the extension of Advanced Mathematics I. The course aims at providing mathematical concepts and methods to students in the study of classical mechanics, electromagnetism, quantum mechanics as well as statistical mechanics. The topics will cover infinite series, Fourier series and transformation, ordinary differential equations, probability.

Pre-requisite: APAC1000

**APAC2001    ANALYTICAL AND ENVIRONMENTAL CHEMISTRY**

Introduction of analytical chemistry, including the concept of analytical chemistry, sample preparation, analysis methods, quality control, as well as analytic techniques for environmental science. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003

**APAC2002    MODERN PHYSICS**

This course is intended to develop basic theoretical tools needed to understand fundamental atomic processes. It will introduce you to modern quantum physics starting with the special theory of relativity and the foundations of quantum mechanics. Then it presents the basic concepts and principles of atomic physics. Topics may include the hydrogen and helium atoms, spin-orbit coupling schemes, hyperfine interaction, Lamb shift, atoms in magnetic fields, multi-electron atoms, Pauli exclusion principle, Hund's rules, diatomic molecules, Born-Oppenheimer approximation, electronic, vibrational, rotational and rotational-vibrational spectra.

Pre-requisite: None

**APAC2003    INORGANIC CHEMISTRY**

Introduction of inorganic chemistry, including general principles of chemistry, periodic properties of elements, acid-base theory, structure of compounds, s, p, d-block elements, etc. Some related experiments will be included.

Pre-requisite: APAC1003

**APAC2004    QUANTUM PHYSICS**

Introduction to quantum mechanics. It may cover the following topics: Wavefunction and Schrodinger equation, observables, eigenfunctions, one-dimensional steady state problem, Mechanical quantities expressed by operators and representation transformation, the evolution of mechanical quantities over time and symmetry, the Schrodinger equation in spherical coordinates, spin and orbital angular momentum, Quantum transitions, hydrogen atom and addition of angular momenta.

Pre-requisite: APAC2000

**APAC2006    ORGANIC CHEMISTRY: FOUNDATIONS OF CHEMICAL REACTIVITY AND SYNTHESIS**

Introduction of the structures, properties, preparation, and reactions of a vast array of molecules that we call organic compounds. Introduction of concepts that structure determines properties leading to exploration of the subject in a systematic manner through understanding of classes and functionalities and reaction mechanism. Materials learnt in earlier chapter will serve as building blocks for the topics in the later chapter. Stereo- and regio-controlled chemical reaction types are introduced.

Pre-requisite: APAC1003

**APAC3000    MATERIALS PHYSICS AND CHEMISTRY**

The course will introduce the general synthesis methodologies in material science based on Physics and Chemistry principles. Exploration and applications of novel and functional materials, especially in modern technology, will also be covered in the course.

Pre-requisite: None

**APAC3001    SOLID STATE PHYSICS**

In this course, the behavior of atoms and shared electrons in solids will be described by

classical physics and quantum mechanics. The discussion of solid with crystalline structure will be one of the emphases. Some properties of crystal such as defects, disorder and thermal vibration will be studied. Then, band theory and motion of electron will be investigated.

Pre-requisite: None

### **APAC3002 THERMODYNAMIC AND STATISTICAL PHYSICS**

This course introduces the foundations of statistical mechanics to students with a strong mathematics and physics background, who are contemplating a major in Physics or interested in a rigorous treatment of physics. The main contents include the zeroth, first, second and third laws, thermodynamical potentials and Legendre transformation, phase coexistence and phase transition, thermodynamical stability, statistical distribution of almost independent systems, and others.

Pre-requisite: None

### **APAC3003 MATERIALS CHARACTERIZATION**

Introduction of commonly used materials characterization methods (XPS, SEM, AFM, XRD, Raman, XPS), including their theory of operation and hands-on experience. Includes a discussion of the measurement process and instrumental analysis of samples.

Pre-requisite: None

### **APAC3004 OPTOELECTRONICS**

This course covers the fundamental principles of wave and geometric optics, photonics and optoelectronics, with an emphasis on applications. Topics may include light propagation and basic properties, polarization, waveguide and optical fibre, optical properties of crystals and semiconductors, semiconductor light emitting diodes, lasers, photodetectors, photovoltaic devices and displays. The course also includes substantial laboratory and project work.

Pre-requisite: None

### **APAC3005 PHYSICAL CHEMISTRY**

This course provides a theoretical and mathematical description of the physical behavior of chemical systems. Introduce and interpret observations on the physical and chemical properties of matter. Physical chemistry is also essential for developing and interpreting the modern techniques used to determine the structure and properties of matter, such as new synthetic materials. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003 or HSC1000

### **APAC3006 SEMICONDUCTOR PHYSICS**

Brief introduction of solid-state physics and crystallography, followed by a major focus on the knowledge of semiconductor physics with topics including electronic states in semiconductors, defects in semiconductors, the carrier transportation in semiconductors, unbalanced carriers in semiconductors and semiconductor junctions, via both classroom teaching and lab exercises.

Pre-requisite: None

### **APAC3007 LOW-DIMENSIONAL PHYSICS**

The course aims at an introduction to basic principles of nanophysics allowing working in research and development in nanotechnology. Students will learn basic principle of physics of nanometer-size systems with a focus on basic physical phenomena.

Pre-requisite: None

### **APAC3008 NANO CHEMISTRY**

Introduction of nanomaterials and nanochemistry, including the concept of nanoscale, the band structure and the corresponding characters of nanomaterials, the fabrication, modification and application of nanosystem.

Pre-requisite: None

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**APAC3009 POLYMER CHEMISTRY**

Introduction of various classes of organic and polymer compounds, emphasizing organic and polymer chemical reactions and mechanisms of major functionalities and their importance in the area of chemistry. Topics covered include: structure and bonding; regio-, geometric, and stereoisomerism; substitution and elimination reactions; synthesis and reactions of alcohols and epoxides; structure and properties of polymer; free radical polymerization; condensation polymerization; crystallization and crosslinking of polymer chains; characterization and application of organic and polymer compounds. Related experiments will also be arranged in this course.

Pre-requisite: APAC1003

**APAC3010 THIN FILM PHYSICS**

Thin films are used in many aspects in modern technologies. This course mainly focuses on introducing the working principles of various thin film fabrication techniques, such as, thermal evaporation, sputtering, chemical vapor depositions. Physics in obtaining vacuum and/or plasma conditions as well as the applications of thin films in modern society are also going to be covered.

Pre-requisite: None

**APAC4000 RESEARCH PROJECT**

The course is designed for the students to carry out projects at year 4. The projects should be focused on the scope of Applied Physics and Chemistry.

Pre-requisite: None

**APAC4001 ELETROCHEMISTRY**

Introduction to fundamental principles of electrochemistry and electrochemical methods of analysis. The course will cover topics in physical as well as electroanalytical chemistry including thermodynamics, electrode potentials, galvanic and electrolytic cells, electrode kinetics, dynamic electrochemistry, mass transport by migration, diffusion and convection, diffusion layers, and electrochemical instrumentation and techniques. The student will learn about the theoretical and practical aspects of electrochemical measurements whether they be used for determining some physical property a system. Using a combination of problem-based learning approaches and traditional lectures, the student will develop critical thinking skills in the areas of electrochemical method and data interpretation.

Pre-requisite: None

**APAC4002 ELECTRODYNAMICS**

Electrodynamics is aimed at exploring the properties of electromagnetic fields, law of motion, and its interaction with charged matter. The main focus of this course is to explain the theory of macroscopic electromagnetic field.

Pre-requisite: None

**APAC4003 MAGNETIC PROPERTIES OF MATERIALS**

Introduction of electric and magnetic properties of materials, including interesting macroscopic phenomena such as superconductor, multiferrics, frustration, etc., and related macroscopic origins, based on frontier researches and emerging new materials.

Pre-requisite: None

**APAC4004 MATHEMATICAL METHODS IN PHYSICS**

The course focuses on the partial differential equations in physics, their mathematical structures, as well as related numerical methods. The main topics will cover the introduction of elliptic, parabolic, and hyperbolic equations, their key theoretical results, and numerical methods for solving these equations.

Pre-requisite: GEST1004

**APAC4005 MICRO-/NANO-SYSTEMS**

This course provides an overall introduction to miniaturization and microelectromechanical systems (MEMS) with basic theoretical principles of the scaling in micro/nano-devices. Key fabrication methodology, material, and structural design of MEMS will be introduced. The state-of-the-art applications of MEMS in interdisciplinary fields will also be covered.

Pre-requisite: None

**APAC4007 SEMICONDUCTOR MATERIALS AND DEVICES**

Introduction of semiconductor and device physics. Brief introduction of semiconductor growth and the device fabrication processes, including crystal growth, floating zone refining, defects control, doping and lithography. Main focus will be on the properties of semiconductor devices, such as p-n junction, metal-semiconductor contact, MIS and transistor. Also, applications of semiconductor devices will be introduced.

Pre-requisite: APAC3006 or APAC3001

**APAC4008 SUPRAMOLECULAR CHEMISTRY**

Supramolecular chemistry is "chemistry beyond the molecule". It is an interdisciplinary field that covers the physical, chemical and biological properties of complex chemical species held together mainly by non-covalent interactions. This course provides an introduction to the field, and discusses the intermolecular forces that dictate the formation of supermolecules and supramolecular assemblies and their properties. Main topics include basics of molecular recognition, host-guest chemistry, self-assembly, supramolecular materials and function, as well as supramolecular medicine.

Pre-requisite: None

**APAC4009 THEORY AND MODELING OF MATERIALS PROPERTIES**

This course uses the theory and application of atomistic computer simulations to model, understand, and predict the properties of real materials.

Pre-requisite: None

**APAC4010 TOPICS IN EMERGING MATERIALS**

Materials are fundamental to economic, social and industrial development. They form the basis for the functionality of the built environment, products and technologies that are vital to modern society. This course will discuss the recent discovery of emerging materials that they can be the key innovative trigger in the development of many new products and technologies.

Pre-requisite: None

**CIVL1000 COMPUTER SCIENCE**

This course introduces computer science with basic logic and fundamental programming techniques. Fundamental of programming include primitive data types, expressions, control statements, functions, and arrays. Both theoretical concepts and practical skills are involved; students can experience problem solving by formulating programmatic solutions for real problems and translate them into programs with the programming languages: C++ and Fortran.

Pre-requisite: None

**CIVL1001 INTRODUCTION TO CIVIL AND ENVIRONMENTAL ENGINEERING**

Introduction to the study and practice of civil engineering; subfields in the discipline, such as structural, geotechnical, environmental, water resources, ocean & coastal, transportation, and construction engineering; professionalism and professional registration; engineering ethics and safety. Independent study on various topics will be assigned to students.

Pre-requisite: None

**CIVL1002 CIVIL ENGINEERING DRAWING**

This course is designed to provide civil engineering undergraduates with basic understanding of the theory and practice of engineering drawings and computer-aided design for civil engineering applications. Students will learn to read and construct blueprints and working

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drawings by means of lectures, discussion of drawing examples related to existing buildings or projects, CAD practice. Topics will include basic fundamentals of graphics and drafting principles, Auto-Cad fundamentals, architectural drawings, structural floor plan of building, detailing for typical reinforced concrete structural and steel members.

Pre-requisite: None

### **CIVL1003 STATICS**

It is a beginning level course for the preparation of other intermediate courses in solid and fluid mechanics. It introduces the basic concepts, tools and methods for rigid bodies, such as forces, moments, free body diagram, equilibrium, supports, reactions, internal forces and moments, truss, frame, shear force and bending moment diagram, etc.

Pre-requisite: None

### **CIVL1004 ENGINEERING GEOLOGY**

The first part includes the major principles of physical geology covering the structure of the Earth, plate tectonics, volcanism and other mountain building processes, the surface erosion process, and the formation and properties of minerals and rocks. The second part concerns with the application of geological knowledge to civil engineering problems such as landslide, subsidence and earthquake etc. The third part includes the engineering classification of soils.

Pre-requisite: None

### **CIVL2000 KINEMATICS AND DYNAMICS**

This course covers the following topics: kinematics of particles, kinetics of particles; Newton's second law and energy and momentum methods, systems of particles, kinematics of rigid bodies, plane motion of rigid bodies: forces and accelerations and energy and momentum methods, kinetics of rigid bodies in three dimensions, mechanical vibrations.

Pre-requisite: ECEN1008; CIVL1003

### **CIVL2001 MECHANICS OF MATERIALS**

This course introduces fundamental concepts of deformable bodies. It serves as a bridge between mechanics of rigid bodies and structural analysis. It introduces the behavior of structural members, both qualitatively and quantitatively, under different types of external loadings.

Pre-requisite: CIVL1003

### **CIVL2002 SURVEYING**

This course covers the following topics: distance measurement, leveling, angle measurement, surveying errors and adjustments, field operations, traverse, construction surveying, curve measurement, measurement of area and volume, topography.

Pre-requisite: None

### **CIVL2003 FLUID MECHANICS**

Properties of fluids; Fluid statics; Fluid in motion and the conservation of mass; Pressure variation in flows; Momentum and energy principles; Dimensional analysis and similitude; Application in civil engineering: pipe flow, pipe networks, and open channel analysis.

Pre-requisite: GEST1004 and ECEN1008

### **CIVL2004 MATHEMATICS FOR CIVIL ENGINEERING**

There are two parts of this course:

1. linear algebra;
2. probability.

It aims at providing civil engineering students necessary mathematics tools in their study of core courses. Examples will be designed with civil engineering-related problems.

Pre-requisite: MATH1003

### **CIVL2005 CONSTRUCTION MATERIALS**

This course is designed to provide undergraduate civil engineering students fundamental principles of the behavior, physical and engineering properties of various common civil engineering materials, including natural stones, sands, aggregates, cement, concrete, steel, timber and bituminous materials. Selection and design of materials based on their intended use in design and construction are emphasized. The laboratory sessions are designed to provide students a hand-on experience on various material testing concepts and procedures. Written reports and oral presentation of experimental results will be required.

Pre-requisite: None

### **CIVL2006 STRUCTURAL ANALYSIS**

This first course in structures introduces structural design concept and process, analysis of statically determinate structures, analysis of indeterminate structures by flexibility method and stiffness method.

Pre-requisite: CIVL2001

### **CIVL2007 SOIL MECHANICS**

This course covers the following topics: the index properties, plasticity and structure of soil, engineering classification of soil, soil compaction, permeability, seepage, effective stress, stresses in a soil mass, consolidation behavior and strength of soils. The first part of the course introduces fundamental engineering properties and the second part covers the concept of time dependent deformation behavior and the strength of soil.

Pre-requisite: CIVL1003

### **CIVL3000 STEEL DESIGN**

This course covers the following topics: This course is designed to introduce the behaviour and design of steel structural members according to the limit states design concept. The behaviour and design of tension members, compression members, laterally restrained and unrestrained beams, beam-columns and design of connections will be discussed. Students are expected to obtain basic knowledge about the design and failure mode of steel structural members after finishing this course.

Pre-requisite: CIVL2006

### **CIVL3001 CONSTRUCTION MANAGEMENT AND PRACTICE**

This course addresses various aspects of managing construction projects. Topics include: Organizational structure of construction companies; Project delivery systems: traditional, construction management, design-build, BOT; Project estimating and tendering; Project scheduling and tracking; Construction services during design and site administration; Safety considerations and quality control.

Pre-requisite: None

### **CIVL3002 ENVIRONMENTAL ENGINEERING I**

This course is organized with the following chapters: introduction of environmental engineering; chemistry; biology; ecosystems; materials and energy balances; risk perception, assessment and management; hydrology; water characteristics involving physical, chemical and biological aspects; water quality analysis including principles and methods involved in natural water quality process; physical and chemical modelling for water environmental processes involving chemical equilibrium, reaction kinetics, and reactor principles.

Pre-requisite: STGC1001

### **CIVL3003 ENVIRONMENTAL ENGINEERING II**

This course is organized with the following chapters: water quality control in rivers; water and wastewater treatments: physical, chemical and biological processes; design principles for water and wastewater treatment facilities; water treatment processes and unit operations including coagulation and flocculation, sedimentation and flotation, filtration and clarification; reactor principles and wastewater treatments including bio-chemical treatments, secondary

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sedimentation operation, activated sludge treatment process, bio-film treatment process.

Pre-requisite: CIVL3002

### **CIVL3004 REINFORCED CONCRETE DESIGN**

This course covers the following topics: reinforced concrete material properties; limit state design concepts; introduction to European design standards (i.e. Eurocodes 1 and 2); analysis of frames and shear wall structures; analysis of sections in bending and/or axial loads; yield line and strip methods for slabs; behavior and design of reinforced concrete beams, one-way slabs and two-way slabs considering flexure, shear, anchorage, curtailment and serviceability requirements; behavior and design of short and slender columns under combined bending and axial loads.

Pre-requisite: CIVL2006

### **CIVL3005 FOUNDATION ENGINEERING**

The course introduces civil engineering students the fundamental concepts of foundation analysis and design. This course covers the following topics: Review of Soil Mechanics; Subsurface Exploration; Shallow Foundations; Pile Foundations, and selected topics of foundation engineering.

Pre-requisite: CIVL2007

### **CIVL3006 CIVIL ENGINEERING HYDRAULICS**

Application of the basic laws of fluid mechanics to hydraulic problems. Analysis of simple and multiple steady pipe flows: branching pipes, pipes in series and parallel, and pipe network; flow measurement in pipe. Unsteady flow in pressure conduits: establishment of steady flow and water hammer. Analysis of pumps and turbines. Pump and system characteristics. Steady open channel flow: energy and momentum principles; critical and uniform flow development and their computation; best hydraulic section; gradually varied flow and its profile computation; flow measurement in open channel. Introduction to Hydrology.

Pre-requisite: CIVL2003

### **CIVL3007 ADVANCED TOPICS IN SOIL MECHANICS**

This course is focused on the practical knowledge of soil behavior required by civil engineers for design and construction of geotechnical projects. Two most important topics of soil mechanics, consolidation and shear strength of soils, will be discussed in detail. In addition, other practical topics including soil compaction, slope stability will be covered.

Pre-requisite: None

### **CIVL3008 ENVIRONMENTAL MODELING**

This course is organized with the following chapters: Key Tool Skills; Mass Balance and Kinetics; Atmospheric Process; Carbon Dioxide Equilibria; Pesticides, Mercury, and Lead; Fates of Organic Compounds; PCBs, Dioxins, and Flame Retardants.

Pre-requisite: None

### **CIVL4000 GRADUATION PROJECT I**

The graduation project (GP) for Civil Engineering Programme is a one-year independent study under the supervision of faculty member(s), which includes either analytical, experimental, computational, or case-study type work. A final report must be submitted near the end of the second semester accompanied with an A3 size poster. The GP will be assessed through continuous work, report writing and oral presentation. The mark will be given as a single unit for both the courses 'CIVL4000 GRADUATION PROJECT I' and 'CIVL4001 GRADUATION PROJECT II', with a total of 6 credits.

Pre-requisite: Final year level

### **CIVL4001 GRADUATION PROJECT II**

The graduation project (GP) for Civil Engineering Programme is a one-year independent study under the supervision of faculty member(s), which includes either analytical, experimental,



computational, or case-study type work. A final report must be submitted near the end of the second semester accompanied with an A3 size poster. The GP will be assessed through continuous work, report writing and oral presentation. The mark will be given as a single unit for both the courses 'CIVL4000 GRADUATION PROJECT I' and 'CIVL4001 GRADUATION PROJECT II', with a total of 6 credits.

Pre-requisite: CIVL4000

### **CIVL4002 INTEGRATED PROJECT DESIGN**

The course focuses to provide design skills required to carry out real case projects from inception, feasibility, engineering, procurement, and implementation. Emphases will be placed on presentation of design project in the form of technical descriptive writings, verbal communications, calculations, and drawings. Professional ethic training will be provided by experienced engineer/professor. Before the end of this course, students need to finish and pass the assessment of engineering safety training which is provided either by the Macau Direcção dos Serviços para os Assuntos Laborais 澳門勞工事務局 (for local students) or by the department (for non-local students).

Pre-requisite: None

### **CIVL4004 ADVANCED MECHANICS OF MATERIALS**

This course covers the following topics: plastic deformation of axially loaded member, plastic bending of beams, bending of beams with asymmetric cross sections, shear stress and shear center of thin-walled cross section, strain energy and energy method, calculation of beam deflection with moment diagram.

Pre-requisite: CIVL2001

### **CIVL4005 ADVANCED STRUCTURAL ANALYSIS**

This course is the second course in structural analysis and covers the general stiffness method, the matrix stiffness method, influence lines for determinate and indeterminate structures, virtual work method, plastic analysis of beams and frames.

Pre-requisite: CIVL2006

### **CIVL4006 STRUCTURAL VIBRATIONS**

This course introduces dynamic behaviour of structures and methods to obtain structural response under dynamic load and base excitation.

Pre-requisite: CIVL2006

### **CIVL4007 ADVANCED REINFORCED CONCRETE DESIGN**

This course covers the following topics: Introduction to Macao codes for loadings (including vertical loads, wind loads, and seismic loads) on structures and the reinforced concrete structural design; behavior and design of flat slabs and stair slabs; behavior and design of structural walls, foundations and earth retaining structures; prestressed concrete.

Pre-requisite: CIVL3004

### **CIVL4008 STRUCTURAL SYSTEMS AND ANALYSIS**

This course covers the following topics: structures and the behavior of various types of buildings; structures and the behavior of various forms of bridges; structures and the behavior of catenary cable systems; suitability of a structural type under given conditions.

Pre-requisite: CIVL2006

### **CIVL4009 SELECTED TOPICS IN GEOTECHNICAL ENGINEERING**

Any specialized topic in Geotechnical Engineering chosen by the staff member who has experience in that particular field. The topic will include new theories, design concepts and procedures.

Pre-requisite: CIVL2007

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**CIVL4010 EARTH RETAINING SYSTEMS**

Earth retaining systems form an important component of many civil engineering projects. In particular, it is a necessary element for deep excavations, which are commonly performed in modern cities to obtain underground space. This course will provide extensive discussions for the design and analysis of retaining systems including gravity walls, sheet-pile walls, and diaphragm walls. Students will learn to use computer software to analyze a retaining wall for deep excavation. The course will cover the following topics: lateral earth pressure, retaining wall types, analysis of backfilled walls and in-situ walls, stability of wall and base, settlements due to excavation, strut and anchor systems, diaphragm walls: slurry control, concrete technology, instrumentation for deep excavation.

Pre-requisite: CIVL2007

**CIVL4011 APPLICATION OF NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING**

This course introduces students the application of numerical methods in geotechnical engineering. Basic background of the finite element (FE) and finite difference (FD) methods are briefly introduced with emphasis on geotechnical applications. A finite element commercial programme (GeoStudio) is introduced to students to analyze geotechnical problems, especially using Sigma/W for stress and displacement modeling and Seep/W for seepage analysis. The course includes the following topics: Geotechnical analysis; Finite Element Theory for Linear Materials; Modeling of Shallow Foundations; Geotechnical Considerations; Finite Difference Method, Modeling of Construction and Excavations; Modeling of Seepage.

Pre-requisite: CIVL2007

**CIVL4012 INTRODUCTION TO SOIL IMPROVEMENT**

This is the introductory course of ground improvement techniques for marginal and problematic soil. The content includes the basics of laboratory and in situ tests for geotechnical projects. Then, surface compaction, admixture stabilization and deep densification are covered. Ground modification by consolidation and vertical drains are then covered. Various types of insitu reinforcement techniques such as stone columns, soil soils are introduced.

Pre-requisite: CIVL2007

**CIVL4013 ENGINEERING ECONOMICS AND ETHICS**

This course aims to provide sound and comprehensive coverage of the concepts of engineering economics and ethics. Topics include: role of engineers in business, time value of money, major analysis methods, codes of ethics, rights and responsibilities of engineers and ethical issues in engineering practice.

Pre-requisite: None

**CIVL4014 CONSTRUCTION PLANNING, SCHEDULING AND CONTROL**

This course applies modern management methods to planning and scheduling for construction projects. Topics include: presentation of planning information, developing a network model, precedence/arrow diagrams, critical path method, time-cost trade-offs, resource allocation and leveling, PERT & Monte Carlo techniques, project monitoring, control and update, linear scheduling and computer scheduling.

Pre-requisite: None

**CIVL4015 CONSTRUCTION METHODS, PROCEDURE AND EQUIPMENT**

This course addresses various aspects of contemporary construction methods and equipment. Topics include: equipment economics, engineering fundamentals of moving earth, excavating, loading & hauling equipment, foundation and basement construction, concrete construction practices and formwork design.

Pre-requisite: None

**CIVL4016 ENVIRONMENTAL ENGINEERING III**

This course is organized with the following chapters: Conservation Laws and Continua; Low-

Concentration Particle Suspensions and Flows; Interactions of Small Charged Particles; Adsorption, Partitioning, and Interfaces; Diffusive Mass Transport; Filtration and Mass Transport in Porous Media; Reaction Kinetics.

Pre-requisite: CIVL3003

### **CIVL4017 ESSENTIALS TO ENVIRONMENTAL BIOTECHNOLOGY**

This course reflects the most current and exciting fields of environmental science engineering, as a combination of ET (Environmental Technology) and BT (Bio-Technology).

Pre-requisite: None

### **CIVL4018 WASTEWATER TREATMENT ENGINEERING**

This course nourishes students with engineering knowledge of the comprehensive management for the collection and transport, and the treatment and disposal of sewage/wastewater.

Pre-requisite: None

### **CIVL4019 TRAFFIC ENGINEERING**

This course deals with fundamental introduction of traffic engineering, such as human factor design, geometric design and section design, traffic flow theory analysis, capacity analysis, traffic count methods, signalized intersection analysis; introduction of ITS

Pre-requisite: None

### **CIVL4020 TRANSPORTATION PLANNING AND PUBLIC TRANSPORT SYSTEM**

In the first part of the course, it deals with introduction of urban transportation planning system such as data collection, trip generation, trip distribution, mode choice and trip assignment. In the second part, it familiarizes the students with important issues of public transport system such as system, technology and quality of service. Various kinds of public transportation system like bus, bus rapid transit, light rapid transit, railway rapid transit will be discussed.

Pre-requisite: CIVL4019

### **CIVL4021 SPECIAL TOPICS IN CIVIL ENGINEERING**

Members of the staff will arrange special courses on updated topics for properly qualified students.

Pre-requisite: None

### **CISC1001 PROGRAMMING SCIENCE**

This course introduces the notion of algorithms and teaches principles of problem solving. It also introduces fundamental concepts of programming, such as scalar data types, variables, functions, choice, iteration, recursion, arrays, strings, enumerations, record types, and file processing. These concepts are introduced through the C programming language.

Pre-requisite: None

### **CISC1002 DISCRETE STRUCTURES**

This course introduces the fundamental ideas of discrete mathematics used in many basic computer-related concepts. These include Set Theory, Logic, Counting, Relations, and Graph Theory. Throughout the course, students will also be trained in developing skills in mathematics, such as Modeling, Abstraction and Proof Methods.

Pre-requisite: None

### **CISC1006 PROBABILITY AND STATISTICS**

Sample space and events, axioms of probability; Conditional probability, independence and the Bayes Rule; Random variables, discrete probability distribution, continuous probability distribution, joint probability distribution; Mean, variance, covariance and correlation; Some discrete probability distributions: uniform, binomial, hyper geometric, geometric, negative binomial and Poisson; Some continuous probability distributions: normal, exponential, gamma,

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chi-Squared, lognormal and Weibull; Sampling distributions; Confidence intervals; Hypotheses Testing; Regression and correlation analysis.

Pre-requisite: GEST004

### **CISC1000 INFORMATION TECHNOLOGY FUNDAMENTALS AND PRACTICES**

This foundational course introduces and explores the impact of information technology (IT) in our modern society. The course is designed to provide the fundamentals and practices for an effective use of IT in our daily lives. The course is divided in three modules:

- Module I introduces the fundamentals of IT, the Internet and the Web, connectivity and mobility, and important issues in computer privacy, security and ethics.
- Module II focuses on application software for computers and mobile devices.
- Module III explores computer hardware and computer software, mobile devices and apps, communication and networking.

Pre-requisite: None

### **CISC1004 INTRODUCTION TO COMPUTER SCIENCE**

This is an introductory course on Computer Science (CS) for first year students. The course is designed to give an overview of CS, and its use in various applications, such that students will be more aware and engaged in their major. Details pertaining to the theoretical aspects of CS will be covered in other classes. This course is first divided into topics covering the fundamentals of CS, before shifting to its applications in the real world. Upon completion of this course, students will have a better understand of CS, and be more motivated to study its other aspects.

Pre-requisite: None

### **CISC2001 COMPUTER ORGANIZATION**

Introduction is given to the architecture and organization of a computer system, with a contemporary chip as a sample for introducing machine language, assembly language and Central Processing Unit (CPU). The contents include various parts of computers: CPU, Memory, Input/Output. The primary features and working principles in each part will be introduced in detail, including interrupts, direct memory access, virtual memory and memory management, algorithms and hardware implementation of integer and floating-point number operations.

Pre-requisite: None

### **CISC2002 NUMERICAL METHODS AND COMPUTATION**

Introduction to data representations and computer arithmetic; Basic techniques in MATLAB programming; Numerical solution of nonlinear algebraic equations; Approximating functions; Numerical differentiation and integration; Numerical solution of ordinary differential equations.

Pre-requisite: GEST004

### **CISC2003 OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES**

This course aims to introduce basic features of objected oriented programming and data structures.

Pre-requisite: CISC1001

### **CISC2004 COMPILER CONSTRUCTION**

Modern compiler design, use of automatic tools, compilation techniques and programme intermediate representations; scanner, recursive descent parser, bottom-up parser, code generation and optimization; semantic analysis and attribute grammars, transformational attribute grammars.

Pre-requisite: CISC1002

### **CISC3000 INTRODUCTION TO DATABASE SYSTEMS**

The course provides an overview of database management, database system architecture, and an in-depth study of relational database systems, including both the theoretical aspects of the relational model as related to relational data objects, relational data integrity, and relational data

manipulation (using the relational algebra and relational calculus); and the practical aspects of relational implementations, using the SQL language and views. The course also includes a study of a commercially available database system and database application programming.

Pre-requisite: None

### **CISC2005 PRINCIPLES OF OPERATING SYSTEMS**

This course is devoted to the study of the design principles and implementation issues of contemporary computer operating systems. The main topics include a detailed analysis of processes, multithreading, concurrency, memory, input/output, and file management.

Pre-requisite: CISC2001

### **CISC2006 ALGORITHM DESIGN AND ANALYSIS**

This course aims to introduce basic features of objected oriented programming and data structures.

Pre-requisite: CISC1002, CISC2003

### **CISC2007 HUMAN-COMPUTER INTERACTION**

This course provides an introductory level of human-computer interaction (HCI). The success in the development of highly usable interactive computing systems lies in the understanding of human factors in the process of design. To this aim, this course covers three different perspectives: human – the cognitive aspects, human perceptions and limitations, errors; computer – the current technology for presenting interactive information; and the interaction – from user requirement analysis, interface design, to interface evaluation. This course illustrates the fundamental concepts of human-computer interaction and user-centered design thinking. Specifically, the user-centered design process will be introduced in the lectures and practiced by students through a term-based group project. In addition, trendy HCI research topics will be assigned to individuals to read, research, and share in the class through formal presentations.

Pre-requisite: None

### **CISC2008 OBJECT-ORIENTED ANALYSIS AND DESIGN PATTERNS**

The course discusses object-oriented analysis and design using Unified Modeling Language (UML). The main contents are using case diagram, class diagram, sequence diagram, state diagram, activity diagram, and component diagram of UML. And several design patterns are also introduced. UML and its CASE tool are used to analyze and design the course project systems.

Pre-requisite: None

### **CISC3001 COMPUTER NETWORKS**

This course covers data communication techniques, data transmission, switching techniques, layered network architectures, data link layer protocols, medium access control sublayer and local area networks.

Pre-requisite: CISC2005

### **CISC3002 MOBILE APPLICATION PROGRAMMING**

The growth of mobile devices especially smart phones has led to the high demand of mobile programmers. This course will introduce mobile programming by hands-on experience on mobile application development for Android based mobile devices. Topics will include Android application development environment, user interface design, intents and services, data persistence, networking and messaging, sensors, and graphics. Students are expected to master basic knowledge to develop a working application on Android platform and demonstrate the capability to analysis, evaluate, and utilize different Android APIs to finish the task at hand.

Pre-requisite: CISC1001

### **CISC3003 WEB PROGRAMMING**

This course teaches students the skills necessary for creating web applications, including programming for both the client and the server side. Given the fast pace of change in this highly

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dynamic field, the specific technologies taught will change over time. At present this will include popular technologies such as HTML5, CSS, JavaScript, several popular JavaScript libraries and frameworks, as well as server-side technologies such as PHP and Node.js. The course will focus heavily on developing standards-compliant, accessible web sites using cross-platform open technology.

Pre-requisite: CISC1001

### **CISC3005      ADVANCED DATABASE SYSTEMS**

This course provides an in-depth study of: query optimization; transaction management; concurrency control; database recovery; database integrity; database security; distributed database systems and data normalization. In which, information retrieval and web search engines are also briefly introduced and discussed.

Pre-requisite: CISC3000

### **CISC3006      COMPUTER BASED SIMULATION**

Application of modeling techniques to understanding the operation and design of complex systems such as manufacturing systems, data processing systems, transportation systems, and organizational systems. Coverage includes problem definition, system identification, and performance evaluation. Traditional discrete events simulation is essential to study the transient phenomena, through suitable analysis and prediction models. Software modeling of selected systems in terms of specific knowledge and action models should serve as the course project to be collaborated by students working in self-directed work teams. Pedagogy: project-based learning with students cooperatively working in professional research groups, whose group-based and individual profiles, should track the results for evaluation purpose.

Pre-requisite: None

### **CISC3007      FORMAL LANGUAGES AND AUTOMATA**

This course introduces the fundamental concepts of formal languages and automata. It emphasizes the general principles of formal languages, grammars and automata theory. Topics include finite automata, regular expressions, regular languages and their properties, context-free grammars, languages and their properties, pushdown automata, Turing machines and undecidability.

Pre-requisite: CISC1002

### **CISC3009      COMPUTER GRAPHICS**

This course is designed to provide students with a comprehensive introduction to 2D and 3D computer graphics techniques. Topics covered include graphics systems, input and interactive techniques, modeling and representation, shading and illumination, rendering and texturing. To be more practical, the knowledge will be learnt by using an industrial standard in computer graphics, called OpenGL.

Pre-requisite: MATH1003

### **CISC3010      DISTRIBUTED COMPUTER SYSTEMS**

This course is a senior-level elective course on Distributed Systems for Computer and Information Science. The key principles about distributed systems include: architecture, processes, communication, naming, consistency and replication, and security.

Pre-requisite: CISC3001

### **CISC3011      DIGITAL IMAGE PROCESSING**

This course introduces the fundamentals of digital image processing for senior undergraduate students. It emphasizes the general principles and techniques of image processing. Topics include digital image fundamentals, intensity transformations and spatial filtering, filtering in the frequency domain, image restoration, color image processing, image compression, morphological image processing, image segmentation.

Pre-requisite: MATH1001

**CISC3012 ARTIFICIAL INTELLIGENCE**

Introduction to AI, definition of AI, disciplines of AI; the concept of agent in AI; problem solving agent, building search tree, local search; logical agent, knowledge base representation, logical reasoning. Application programming in PROLOG.

Pre-requisite: CISC2006

**CISC3014 INFORMATION RETRIEVAL AND WEB SEARCH**

This course covers basic and advanced techniques for text-based information systems: efficient text indexing, Boolean and vector space retrieval models, evaluation, web search techniques (crawling, link-based algorithms, web document clustering/classification, text mining, and recommendation).

Pre-requisite: None

**CISC3015 DATA AND INFORMATION VISUALIZATION**

This course is to provide students with a comprehensive introduction to data visualization techniques. These techniques are taught in theoretical and technical learning. At the same time the students are learning the algorithms and methods, they have to make practice to learn how to visualize various kinds of data types, by using available software tools and/or programming.

Pre-requisite: None

**CISC3016 MULTIMEDIA COMPUTING**

This course will introduce general principles and techniques in multimedia programming. The main topics will cover multimedia data fundamentals and representation, digital image and drawing creation and modification, audio manipulation and modern music synthesis, animation and video processing. The programming language used in this course will be Java. The goal is to improve the students' insight in multimedia technology and skills on the multimedia programming, which will enable students to develop new and creative ways of using multimedia in the future.

Pre-requisite: CISC1001

**CISC3017 BIOINFORMATICS**

Bioinformatics is the study of biological information through computer modeling or analysis. Its goal is to reveal relationships between sequences, structures, and functions of molecules. In this course, we intend to give an in-depth introduction of the algorithmic techniques used in bioinformatics. Topics which will be covered include sequence similarity analysis, suffix tree, genome analysis, biological database search, phylogenetic analysis, protein structure manipulation and modeling. This course is designed for undergraduate CS students and assumes no prior knowledge of molecular biology beyond the high school level. Basic concepts of molecular biology will be given in the first lecture, as well as in subsequent lectures before the computational problems are defined. The ultimate goal of this course is to prepare students with the knowledge and skills to conduct research in the area of bioinformatics.

Pre-requisite: CISC2006

**CISC3018 CLOUD COMPUTING AND BIG DATA SYSTEMS**

This course aims at providing students with a solid foundation of cloud computing technologies. The topics include cloud computing applications, cloud services, cloud computing platforms, and big data processing engines.

Pre-requisite: None

**CISC3019 COMPETITION PROGRAMMING AND PROBLEM SOLVING**

This course aims at providing students with creative problem solving and competitive programming skills. International programming competition-type problems will be used to motivate the study of algorithms, programming, and other topics in computer science. Enrollment in the course requires approval of the course instructor.

Pre-requisite: CISC2003

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### **CISC3020 FORMAL SOFTWARE SPECIFICATION**

This course aims to introduce formal software specification. The main contents include formal specification language, requirements specification, pre and post conditions, formal software design modeling, formal verification and model checking tools with some practical case studies. Pre-requisite: None

### **CISC3021 MULTIMEDIA FORENSICS AND SECURITY**

The digital revolution has made a profound impact on our society and has changed the way we work and live. An increasing amount of information can now be acquired, processed, archived, and shared in electronic forms. A major hurdle holding back the wider deployment of services to make multimedia information broadly available to everyone in our society is the lack of security and forensic technologies to assure that content is used for its intended purpose and by its intended recipients. This graduate advanced-topic course focuses on the research and development on the forensic and security technologies for multimedia information. Pre-requisite: CISC3011

### **CISC3022 SOFTWARE TESTING**

This course aims to introduce software testing concepts and techniques, including software errors, failure, requirements specification, test case design, black box testing, white box testing, unit testing, integrated testing, system testing, automated testing, regression testing, and testing tools. Students will apply their learned testing concepts and techniques to testing some software case studies. Pre-requisite: None

### **CISC3023 MACHINE LEARNING**

This course introduces key machine learning techniques and their applications. The topics include overview of supervised learning, linear models, kernel methods, decision trees, neural networks, nearest neighbours, ensemble models, and unsupervised learning. Upon completion of this course, students should be able to apply various machine learning techniques in develop intelligent data analysis systems. Pre-requisite: None

### **CISC3024 PATTERN RECOGNITION**

This course introduces the fundamentals of pattern recognition for senior undergraduate students. It emphasizes the general principles and techniques of pattern recognition. Topics include classifiers based on Bayes decision theory, linear classifiers, nonlinear classifiers, feature selection, feature generation, unsupervised learning and clustering algorithms. Pre-requisite: CISC1006

### **CISC3025 NATURAL LANGUAGE PROCESSING**

This course introduces fundamental concepts and skills associated with the design and implementation of different natural language processing systems covered from morphology, syntax and semantics. The main topics include regular expressions, (weighted) minimum edit distance, language modelling, N vie Bayes (generative model), maximum entropy (discriminative model), text classification, sequence labelling, POS tagging, syntax parsing and computational lexical semantics. The course also includes an overview of practical natural language processing applications. Pre-requisite: None

### **CISC3026 SOFTWARE ENGINEERING PRINCIPLES**

The course discusses the theories, methods and tools of software engineering for developing large and complex software systems. The main contents are requirement specification, system modeling, architectural design, object-oriented analysis and design, verification and validation. The Unified Modeling Language (UML) and its CASE tool are used to analyze and design the course project systems. Pre-requisite: None



### **CISC3027 SPECIAL TOPICS IN COMPUTER AND INFORMATION SCIENCE**

Aim to introduce different advanced topics in computer science", the topic may change from year to year.

Pre-requisite: None

### **CISC3028 ENTREPRENEURSHIP IN COMPUTER SCIENCE**

The course aims to provide entrepreneurship skills to our computer science students. The course contrasts entrepreneurs with managers, contrasts the different kinds of entrepreneurship and discusses the several steps of the entrepreneurial process including starting, growing, managing, leading and exiting.

Pre-requisite: None

### **CISC3029 COMPUTER VISION**

This course introduces to students the basic concepts, fundamental principles and algorithms, and major applications in practice in computer vision area. It covers Digital Image Representation, Binary Image Analysis, Gray Level Image Segmentation, Edge detection Techniques, Digital Morphology, Color Image Processing Fundamentals, and Motion estimation, etc.

Pre-requisite: None

### **CISC4000 GRADUATION PROJECT**

An independent study under the supervision of a faculty member.

Pre-requisite: None

### **CISC4001 PROFESSIONALISM AND ETHICS IN COMPUTER SCIENCE**

This course aims to introduce professionalism and ethics for computer science. The common issues encountered by computer scientists and IT professionals are discussed, including intellectual property, privacy, reliability and security in IT, health and safety in IT, the major normative ethical theories that are applicable to computer science. The code of conduct in computer science including case studies is addressed.

Pre-requisite: None

### **CISC4002 SOFTWARE PROJECT MANAGEMENT**

This course introduces project management as it relates to the software life cycle. Different software life cycle models, and the project management activities in each phase of the life cycle, are examined. Project planning activities are introduced, including activity planning, resource estimation and the use of software metrics, risk analysis, resource allocation and project scheduling. This course concludes with a study of project monitoring and control, and project team organization.

Pre-requisite: None

### **CISC4003 INFORMATION SECURITY**

The course introduces students to the fundamental issues concerning information security and applied cryptography. The areas covered are protecting information using symmetric and public key cryptography, cryptographic hash functions and standards, key exchange, authentication, digital signatures, digital certificates, secure electronic transactions, non-malicious programme errors, viruses and other malicious code, and firewalls.

Pre-requisite: CISC3000, CISC2005 and CISC3001

### **ECEEN1001 INTRODUCTION TO ELECTRICAL AND COMPUTER ENGINEERING**

Overview of Electrical and Computer Engineering; Basic concepts of ECE; Introduction to situation of ECE around the area; Basic knowledge used in the laboratory.

Pre-requisite: None

### **ECEEN1003 INFORMATION TECHNOLOGY REVOLUTION AND ELECTRONICS**

The main objective of this course is to provide students with a broad vision about the evolution

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of technology, in the modern age, since its early beginnings, by describing the significance of the 3 Industrial Revolutions throughout time, since the 1<sup>st</sup> initiated with the Steam Engine (James Watt-1763), followed by the 2<sup>nd</sup> started with the inventions of Electrical Power Generation (Michael Faraday-1831) and the Combustion Engine (Siegfried Marcus-1864), until the 3<sup>rd</sup> kicked-off with the discovery of the Transistor (John Bardeen, Walter Brattain and William Shockley-1947) that really marked the commencement of what is now known as the Information Technology Revolution, led by continuous and fast developments in Electronics, Computing and Telecommunications. Current state-of-the-art and well-known information technology platforms and gadgets will be briefly introduced at the system-level related with their human interfaces, in particular the internet, the mobile phone, the computer, the video game console, the media player, the global positioning system (GPS), and as a motivation for showing what is underlying inside such systems in terms of Electronics. Then, an evolution of silicon semiconductors from the original transistor until the present microchips and fiber-optics networks will be described with projections into the future in terms of unlimited circuit integration (processing capability related with the number of transistors on a chip) and bandwidth availability (speed of communications).

Pre-requisite: None

#### **ECEN1004 EMBEDDED SYSTEMS**

The goal of this course is to develop a comprehensive understanding of the technologies behind the embedded systems, particularly, those using computing elements (such as processor, DSP, or FPGA) and the supported software technology (OS, data structure, multi-tasking, etc.). The students develop an application of the technology capabilities and limitations of the hardware and software components for building embedded systems, and methods to evaluate design tradeoffs between different technology choices. Students are required to finish a design project.

Pre-requisite: ECEN1000

#### **ECEN1005 CIRCUIT ANALYSIS**

Elementary Resistive Circuit Theorems and Analysis Techniques: KCL, KVL, Nodal & Mesh Analysis and their Matrix formulation, Superposition, Source Transformation, Thevenin & Norton Equivalents, Maximum Power Transfer. Ideal OP AMP Model and its Circuit Analysis Methods. Energy Storage Elements, 1st- and 2nd-Order Circuit Analysis: Natural, Forced and Completed Response. Sinusoidal Steady-State Analysis: Phasor, Impedance and Admittance. AC Steady-State Power: Instantaneous and Average Power, Power Factor and RMS Values. Practice includes problem solving, PSPICE and Laboratory Works.

Pre-requisite: GEST1004

#### **ECEN1006 ENGINEERING AND SOCIETY**

This course aims to provide comprehensive coverage of the societal responsibilities and challenges for engineers. This course discusses the ethical codes for engineering profession. The influences of technology on society and global development and their interrelationships are explored. Topics including intellectual property rights, legal and business issues will also be discussed.

Pre-requisite: None

#### **ECEN1011 DIGITAL SYSTEMS**

The objective is to provide the students with basic principles of Digital Logic Design. In this course, we study the Algebra of Logical Variables, Logical Functions, Basic Combinational Circuits, Flip-flops, Registers, Counters, Arithmetics Operations, the Memory Architecture, Sequential Circuits, Controllers, Elementary and more sophisticated Computer Architectures, and certain aspects of the I/O Operations. HDL with FPGA implementation will be included in Laboratory works.

Pre-requisite: None

### **ECEN1012 COMPUTER PROGRAMMING AND NETWORK FUNDAMENTALS**

This course introduces the fundamental concepts and terminologies of computer programming, and covers the skills in developing and writing computer programs to achieve different functions and network protocols. This course also introduces basic knowledge and fundamental architecture of data and computer networks, the principles of protocol design and the analysis of network performance. The topics cover C programming language, arithmetic and logic statements, data types, control structure, socket programming, the layer architecture and protocols of computer networks, packet switching, network layer routing, physical technologies, etc.

Pre-requisite: None

### **ECEN1013 PHYSICS FOR ELECTRICAL AND COMPUTER ENGINEERING**

This is a calculus-based general physics course for ECE students with a laboratory covering classical mechanics and its applications, fluids, oscillations, waves, fundamental optics and its applications.

Pre-requisite: None

### **ECEN2001 MEASUREMENT AND INSTRUMENTATION**

The course commences with a brief review of some basic terminology, systems of units, measurement standards, probability and statistical analysis, traceability and types of error in measurement. The course then covers different electronic and digital measuring instruments, e.g. oscilloscopes, signal generators, signal analysis instruments, etc. Transducers and signal conditioning circuit design are included.

Pre-requisite: GEST1004

### **ECEN2002 ELECTRIC MACHINES**

This course provides fundamental knowledge on electric machines. It includes three phase circuit analysis, principles and static models of transformers and different machines, and relay control.

Pre-requisite: ECEN1005

### **ECEN2003 FUNDAMENTAL ELECTRONICS**

This course mainly introduces basic electronic devices namely operational amplifiers (Op-Amps), diodes, bipolar junction transistors (BJTs) and field effect junction transistors (FETs). In each device, the DC and AC analysis are firstly presented elucidating fundamental parameters of analogue electronic circuitry model like gain, input impedance, output impedance and so forth. An introductory PSpice simulation of these devices and some of their application circuits is included. The experimental validation of the elementary analogue circuitry using analogue and digital testers is also given. The course objective allows the students to acquire the basic engineering technique and ability to design and analyze the circuits of Op-Amps, diodes, BJTs and FETs using modern computing tools as well as measurement and test facilities.

Pre-requisite: ECEN1005

### **ECEN2005 ELECTROMAGNETISM**

The basic relations for static electric fields in free space and material media, Coulomb's law, Gauss' Law; The steady electric current and static magnetic field, Ohm's Law, Joule Law, Kirchhoff's Law, Biot-Savart Law, Ampere's Law; The static magnetic field of ferromagnetic materials; Magnetic materials and hysteresis; comparison of electric and magnetic relations involving polarization and magnetization; Bounded fields and Laplace's equation; Time changing electric and magnetic fields; Faraday's Law. Maxwell's displacement current; Boundary relations for electric and magnetic fields; The relation between field and circuit

Pre-requisite: None

### **ECEN2006 NUMERICAL METHOD AND COMPUTATION**

Introduction to data representations and computer arithmetic; Basic techniques in MATLAB programming; Numerical solution of nonlinear algebraic equations; Approximating functions;

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Numerical differentiation and integration; Numerical solution of ordinary differential equations  
Pre-requisite: GEST1004

### **ECEN2009 BIOLOGY**

Basic principles of plant and animal biology, including cell biology, biochemistry, energetics, genetics, evolution, and ecology. Appreciation of scientific method in general and biological methodology. Lab component will emphasize the use of methodologies typical of biological studies.

Pre-requisite: None

### **ECEN2010 SEMICONDUCTOR DEVICE PHYSICS**

The main goal is to provide the students with an understanding of the relation between physical structure and circuit behavior of semiconductor active devices. The emphasis is on simple models of the semiconductor, the discussion of the properties of potential barriers and field effect, with the MOSFET as the centerpiece of the course. Simple one-device circuits are used to introduce non-linear behavior, and make the connection to the device physics. The students will learn the relation between external circuit parameters (as used in SPICE) and the device internal structure. At the end of the course the students will know the basic mechanism of rectification, amplification and switching and their implementation with various types of semiconductor devices.

Pre-requisite: None

### **ECEN2011 INTRODUCTION TO ELECTRO-ROBOT DESIGN**

The course introduces the fundamental knowledge on the design, implementation and evaluation of a robot and its sub-systems. It covers the basic principles of analog and digital circuits as well as robot sensing and control mechanisms. Students have to apply the knowledge and principles learned to design and build a functional robot by the end of the course.

Pre-requisite: None

### **ECEN2015 APPLIED ELECTRONICS**

This course is devoted to the design and analysis of the advanced analogue application circuits with the emphasis on differential and multistage amplifiers, feedback circuits, filters, oscillators and power amplifiers. Throughout the course, the basic parameters of application circuits of audio and video consumer electronic systems; for example, frequency response, bandwidth, power conversion efficiency and so forth are studied. Using circuit theory based CAD, both the time- and frequency-domain simulations are also given. In addition, the experimental verification of these application circuitries using time- and frequency-domain testers is offered. The course objective allows the students to acquire the adequate engineering technique and ability to design and analyze the transistor circuits of audio and video applications using modern computing tools as well as advanced measurement and test facilities.

Pre-requisite: ECEN2003

### **ECEN2017 SIGNALS AND SYSTEMS**

Basic Continuous-Time Signals and its Transformations. Basic System Properties. Linear Time-Invariant System Analysis: Properties, Convolution Sum and Convolution Integral, Impulse and Step Responses. C-T Fourier Analysis: Fourier Series and Fourier Transform. Time and Frequency Characterization of C-T Signals and Systems: Frequency Response, 1st- and 2nd-Order Systems, Bode Plots, Zero-State System Response. Introduction to Filtering, Modulation and Sampling. Laplace Analysis: Bi- and Uni-lateral Laplace Transform, Pole-Zero Plot and Stability, Transfer Function, Application in Circuit Analysis. Practice includes problem solving, MATLAB and Laboratory Works

Pre-requisite: ECEN1005

### **ECEN2018 LINEAR ALGEBRA, PROBABILITY AND STATICS FOR ELECTRICAL AND COMPUTER ENGINEERING**

The first part of this course gives an introductory treatment of linear algebra that is suitable for

a first undergraduate course on the topic. Its aim is to present the fundamentals of linear algebra in the clearest possible way. Sound pedagogy is the main consideration. The course will focus on Systems of linear equations and matrices, Determinants, Vectors in 2-space and 3-space, Euclidean vector spaces, General vector spaces, Eigenvalues and eigenvectors, and Linear transformations. An introduction to probability theory and statistics, with an emphasis on solving problems in engineering. The second part of the course will focus on Probability and statistics. Topics in probability include discrete and continuous random variables, probability distributions, sums and functions of random variables, the law of large numbers, and the central limit theorem. Topics in statistics include sample mean and variance. Exercises and problems presented in the classes are tailored to help students to understand the key topics and their application to practical engineering problems.

Pre-requisite: None

### **ECEN2019 POWER SYSTEM ENGINEERING AND PROTECTION**

This course introduces the fundamentals of power system engineering and protection including basic principle of transformer and transmission line, protective devices, fault, protective relay and control, as well as protection for distribution circuits and transmission lines. It emphasizes on the basic understanding of protection concept in power system. Topics include introduction to power system components, protective devices, over-current protection and co-ordination, differential protection, distance protection. Protection for low voltage power distribution network.

Pre-requisite: None

### **ECEN3000 CONTROL SYSTEMS**

This course deals with the fundamental principles for analysis and design of control systems. Topics include dynamic modeling, dynamic response, basic properties of feedback, root-locus design method, frequency-response design method, and state-space design.

Pre-requisite: ECEN2000

### **ECEN3001 DIGITAL SIGNAL PROCESSING**

Discrete-time Signals and Systems; Sampling Theorem and Reconstruction; Transform Analysis for LTI Discrete-Time Signals and Systems: Discrete-Time Fourier Transform (DTFT), z-Transform, Discrete Fourier Transform (DFT), Fast Fourier transform (FFT); Fundamental Digital Filter Design Techniques: Infinite Impulse Response (IIR) and Finite Impulse Response (FIR) Filters; Introduction to the Applications of Digital Signal Processing; Practice includes problem solving, MATLAB based Project Works.

Pre-requisite: ECEN2000 and MATH2000

### **ECEN3002 ELECTRICAL AND COMPUTER ENGINEERING SEMINARS**

Students are required to participate in ECE related seminars and conferences so they may have the chances to contact the progress of ECE in different disciplines.

Pre-requisite: None

### **ECEN3003 INTRODUCTION TO BIOMEDICAL ENGINEERING**

This is an introductory course to the fundamentals of Biomedical Engineering from the view point of Electrical and Electronics Engineering for senior undergraduate students. It emphasizes general concepts and techniques of biomedical engineering. Topics include overview of human body, biomedical electrodes, sensors and transducers, biomedical signals and its measurement techniques, biomedical electronics, electrical safety, and embedded system in biomedical equipment.

Pre-requisite: None

### **ECEN3004 FUNDAMENTAL BIO-ELECTRICITY**

This course is designed to prepare senior undergraduate students with fundamental knowledge of the bioelectric phenomena. Topics include general principles of the electric and magnetic fields in the biological environments, and application of these principles to disease diagnosis.

Pre-requisite: ECEN2009 and ECEN3003

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**ECEN3005 BIOMEDICAL ELECTRONICS**

Introduction to biomedical signals; basic circuit analysis for biomedical signals; design of bioamplifier circuits; characteristics of linear and nonlinear circuit elements; design of basic electronic circuits, principles and practice of bioelectronic measurements.

Pre-requisite: ECEN2003 and ECEN3003

**ECEN3006 INTRODUCTION TO BIOMEDICAL SIGNAL ANALYSIS**

Introduction to stochastic signal analysis methods used in biomedical signal processing and analysis. Fundamental techniques to analyze and process signals that originate from biological sources: ECGs, EMGs, EEGs, blood pressure signals, etc. Analog and digital filtering.

Pre-requisite: ECEN2007 and ECEN3001

**ECEN3007 POWER ELECTRONICS**

The course includes operating characteristics of power semiconductor devices, such as Bipolar Junction Transistors, IGBTs, MOSFETs and Thyristors, and fundamentals of power converter circuits including dc/dc converters, ac/dc rectifiers, dc/ac inverters and ac/ac converters.

Pre-requisite: ECEN1005

**ECEN3008 POWER SYSTEMS ANALYSIS**

This course provides fundamental knowledge on power system. It includes calculation on line parameters, line models, admittance matrix calculation, load flow calculation, symmetrical networks, machine model for short circuit calculation, symmetrical and asymmetrical short circuit calculation and state estimation

Pre-requisite: ECEN1005

**ECEN3009 POWER QUALITY AND ENERGY SAVING**

This course is designed to prepare senior undergraduate students with knowledge and manipulative skills for employment in the electrical industry. It emphasizes the theory and practice of the power quality and energy saving skills. Topics include power quality standards, Power Quality Monitoring, HV/MV/LV Power Quality Compensators, Energy Efficient Standards, Energy Measure and Energy Saving Equipment.

Pre-requisite: None

**ECEN3010 POWER ELECTRONICS DESIGN AND IMPLEMENTATION**

Fundamentals of power electronics drivers, components and controller are included and reviewed. Design considerations of power electronic rectification, controlled rectification, DC chopper power modulators, and DC-to-AC inverters are discussed. Fourier series analysis of inverter waveforms, power filter design and feedback control of a power electronics system are examined. Design and implementation of a power electronics system is performed.

Pre-requisite: ECEN3007

**ECEN3011 ELECTRIC DRIVE**

This course will describe the structure of Electric Drive Systems and their role in various applications such as flexible production systems, energy conservation, renewable energy, transportation etc. This course will cover the basic principles of power electronics in drives using switch-mode converters and pulse width modulation to synthesize the voltages in dc and ac motor drives, the operation of dc motor drives to satisfy four-quadrant operation to meet mechanical load requirements, design torque, speed and position controller of motor drives, space vectors control, speed control of induction motor drives in an energy efficient manner using power electronics, the power quality issues in powering electric drives.

Pre-requisite: None

**ECEN3012 PRINCIPLES OF COMMUNICATION SYSTEMS**

This course is the basic discipline of telecommunication theory and relevant techniques. In addition to an information theory introduction, it includes the study of signal and architecture of communication systems, amplitude and angle modulation, modulation and demodulation

techniques and so forth. The important concepts like noise, interference, channel distortion, intersymbol interference and entropy are also elucidated with the help of system simulator. Example transmitter and receiver of broadcasting communication systems and cellular communication systems are also highlighted. The course objective allows the students to acquire the basic engineering understanding to the modern communication systems and; the relevant theory and technique.

Pre-requisite: ECEN2000

### **ECEN3013 RADIO FREQUENCY AND MICROWAVE TECHNIQUES FOR WIRELESS SYSTEMS**

This course deals with the basic RF and microwave circuit design techniques for receivers and transmitters used in modern wireless analog and digital communication systems. The distributed circuitry theory is studied including transmission line, impedance transformation, impedance matching, smith chart, S-parameters, filters, couplers, mixers, oscillators, low noise amplifiers and so forth. The study also includes linear and nonlinear microwave circuitry simulation together with the elementary RF/microwave measurement techniques using scalar and vector network analyzers. The course objective allows the students to acquire the basic engineering technique and ability to design and; analyze the RF and microwave circuits using modern high frequency simulation softwares as wells as advanced RF and microwave testers.

Pre-requisite: ECEN2005

### **ECEN3014 ANTENNA THEORY AND APPLICATIONS IN WIRELESS COMMUNICATIONS**

This course is devoted to the antenna fundamentals and its wireless applications. The study includes basic concepts of antennas, dipole, arrays, microstrip patch antennas, adaptive antennas, full wave analysis and optimized antenna design by full wave electromagnetic solvers like MoM. Narrowband and wideband antennas for practical wireless communication systems - GSM, WCDMA, WLAN, RFID and UWB are also studied. Throughout the course, the students acquire the basic engineering technique and ability to design and; analyze the antennas together with the relevant simulation and measurement techniques.

Pre-requisite: ECEN2005

### **ECEN3015 CELLULAR COMMUNICATION NETWORK DESIGN AND OPTIMIZATION**

This course brings students fully up to date with the myriad of system developments in latest cellular communication networks namely GSM, WCDMA and so forth. Topics include basic network architecture and design issues, evolution of the wireless industry, characterization of radio propagation, modeling and simulation of narrowband signal characteristics and radio channel characteristics, fading, diversity, spread-spectrum technique, standards of GSM, GPRS, EDGE and WCDMA and so forth. The basic network optimization technique for 2G and 3G cellular networks is also studied. Throughout the course, the students acquire the basic engineering understanding to modern cellular network design issues and optimization.

Pre-requisite: ECEN3012

### **ECEN3016 INTRODUCTION TO WIRELESS TECHNOLOGY FOR DIGITAL GAME**

This course brings students a straightforward introduction of the use of computer interactive game for entertainment, teaching and learning. The new paradigm of integration of wireless technology and motion, vision, acoustic sensors for interactive game is studied. Coverage includes introductory theory of modern digital game, the game characteristics, rationale for digital game in learning and entertainment, technologies for digital games, case studies, operating system platform, short range communication technologies; sensor design, signal conditioning circuits, user interface, application software and so forth. Throughout the course, the students acquire the introductory engineering understanding to emerging multimedia game application using wireless technology.

Pre-requisite: ECEN2015 and ECEN3012

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**ECEN3017 ANALOG INTEGRATED CIRCUIT DESIGN**

This course is designed to introduce analog IC design fundamentals including single/multiple-transistor amplifiers, current mirrors, current/voltage reference, output stages, frequency response, feedback, stability, and the operational amplifier design. Students will gain the basic understanding of analog IC design and become familiar with circuit analysis, layout designs and simulation tool flow.

Pre-requisite: None

**ECEN3018 INTRODUCTION TO DATA CONVERTERS**

This course will provide an introduction to the various types of Data Conversion System, which is of the most key components in the electronics system. The performance characterization of Data Converters will be presented, and various types of data converters (including Analog-to-Digital and Digital-to-Analog) will be discussed. This course can be served as the beginning course in the field of Data Conversion and Signal Processing System in the area of Analog IC Design.

Pre-requisite: None

**ECEN3019 INTRODUCTION TO RADIO-FREQUENCY CIRCUITS AND SYSTEMS**

This course covers the circuit and system design of modern wireless receivers and transmitters. The system performance metrics, circuit performance metrics and figure-of-merits are introduced. Design examples from practical applications such as GSM, WCDMA, WLAN, GPS are included. The course includes design and simulation projects based on Matlab and Cadence with CMOS technologies.

Pre-requisite: None

**ECEN3020 ADVANCED TOPICS IN ANALOG AND MIXED-SIGNAL INTEGRATED CIRCUIT DESIGN**

The purpose of this course is to investigate advanced analog circuit integrated circuit design. The student will be exposed to analog design at the system level, and learn how design specifications are achieved and design tradeoffs are made in modern analog and mixed-signal integrated circuits.

Pre-requisite: ECEN3017

**ECEN3021 MULTIMEDIA TECHNOLOGY**

This course aims at providing students with understanding of multimedia technology from both the theoretical and practice perspective. The course covers the multimedia data types such as image, video, audio, and also introduces emerging multimedia applications such as virtual reality and augmented reality. Programming languages and computer tools for multimedia technology will be introduced to the students.

Pre-requisite: ECEN1006 and ECEN3001

**ECEN3022 ADVANCED INTEGRATED CIRCUIT DESIGN FOR INTERNET OF THINGS SYSTEMS**

This course targets to provide an overview of the enabling integrated circuit design techniques for the development of energy constrained Internet of Things (IoT) systems. The fundamental building blocks in an IoT system will be systematically introduced, including the analog interface, power management circuits, energy harvesting modules, analog-to-digital converters, short-range radios, digital architecture, non-volatile memory, hardware security and battery/packaging. Advanced circuit design techniques targeting for ultra-low power consumption to fulfill the application level requirements will also be introduced.

Pre-requisite: None

**ECEN3023 INTELLIGENT METHODS FOR ELECTRICAL AND COMPUTER ENGINEERING**

This is an introductory course in machine learning and computational intelligence tailored for ECE students. It covers topics from statistical learning including linear regression and



classification, clustering, Bayesian learning, to more recent techniques such as evolutionary computing, support vector machines, convolutional neural network and deep learning, with special attention to hardware aspects and ECE applications. The course aims to offer students a set of modern intelligent solutions as well as the basic ideas and intuition behind, with more emphasis on hands-on experience through practical examples such as intelligent hardware system implementation and case studies with MATLAB and Python.

Pre-requisite: ECEN2007

### **ECEN3024 FUNDAMENTALS OF INTERNET OF THINGS**

This course introduces the fundamentals of real time embedded systems. It covers the basic ingredients of complete IoT systems in terms of real time software development based on a practical embedded system utilizing a real time operating system. Embedded hardware systems (e.g. Raspberry Pi, Beagle Bone, TI Sensor Tag etc.) together with in-depth case studies on intelligent sensor based embedded systems will also be introduced. Students will also have the chance to work on lab/tutorials essential for the development of practical real-world IoT systems.

Pre-requisite: None

### **ECEN3025 INTERNET OF THINGS WORKSHOP**

This course introduces the application and essential peripherals (e.g. sensors, actuators, displays etc.) for real time embedded systems. Students should apply their knowledge in IoT systems to design a practical real world IoT implementation using commercial embedded hardware systems (e.g. Raspberry Pi, Beagle Bone, TI Sensor Tag etc.). Students will also attend lab/tutorials, and develop their own practical real-world IoT projects.

Pre-requisite: None

### **ECEN3026 DATA ANALYTICS FOR ELECTRICAL AND COMPUTER ENGINEERING**

This course is an introductory course on data analytics and its application in smart energy systems. It covers three major topics: 1) Primary data analytics theory including classification, regression, principal component analysis, etc.; 2) Hands on data analytics experiences with NumPy, Pandas, Matplotlib, & Scikit-learn packages; and 3) Applications in smart energy systems (with a focus on buildings energy systems), in which comprehensive experiments with real building energy data will be included.

In this course, students will learn systematic knowledge on data analytics and Python. They will also gain solid hands-on experiences in using Python to analyze smart meter data in energy systems.

Pre-requisite: None

### **ECEN4000/ ECEN4001 GRADUATION PROJECT I AND II**

This course aims to give the students experience in solving real engineering problems and the opportunity to apply the knowledge they have gained during their study. Through the project the students will gain experience in project planning, in teamwork and in communication with management and support staff. The project will also develop their design and research skills.

Pre-requisite: Final Year Student

### **ECEN4002 DIGITAL CONTROL**

Digital control systems; open-loop discrete-time systems; closed-loop systems; system time response characteristics; stability analysis techniques; PID controller design; and the control system simulations

Pre-requisite: ECEN3000

### **ECEN4003 SPECIAL TOPIC IN ELECTRICAL AND COMPUTER ENGINEERING**

The course will introduce a selected special topic in the ECE area.

Pre-requisite: Final Year Student

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#### **ECEN4004 BIOMEDICAL MEASUREMENT AND INSTRUMENTATION**

Design of measurement systems and biomedical instrumentation; architecture of electronic instruments used to measure physiological parameters, analysis of major process functions integrated in these instruments

Pre-requisite: ECEN3003

#### **ECEN4005 INTRODUCTION TO BIOMEDICAL IMAGING**

This course is an introduction to the current methods and applications of biomedical imaging. We focus on major imaging techniques, including Magnetic Resonance, Ultra Sound and Computed Tomography. For each technique, we will study the image acquisition (how images are created), the corresponding image processing (how images are analyzed), and their usage in major biomedical applications (what the image analysis says about cancer, brain, heart, or cells).

Pre-requisite: None

#### **ECEN4006 RENEWABLE ENERGY CONVERSION**

This course introduces the engineering and technical aspects of renewable energy conversion systems utilizing biomass, solar, wind, hydro power and others. It emphasizes basic generation and power conversion technologies of renewable energy generation systems. Topics include different available sources of sustainable energy and power, their applications, their limitations, energy conversion, integration circuits and storage for renewable technologies.

Pre-requisite: ECEN3007

#### **ECEN4007 POWER SYSTEM DESIGN AND IMPLEMENTATION**

This course is designed to prepare senior undergraduate students with knowledge and manipulative skills for employment in the electrical industry. It emphasizes the theory and practice of the basic electrical installation and maintenance skills. Topics include introduction to HV/MV/LV equipments, power consumption in Macau, installation and maintenance of transformer, MV/LV distribution and Un-interruptible Power Supply, batteries & chargers.

Pre-requisite: ECEN1005

#### **ECEN4008 INTRODUCTION TO WIRELESS SENSING NETWORK**

This course is about the study of contemporary issues in wireless sensing networks. Coverage includes short range communications namely WLAN, RFID, Bluetooth, Zigbee and; sensor design, signal conditioning circuits, detection, energy minimization, connectivity, security, storage management in wireless sensor networks, middleware, applications and so forth. Design examples for RFID and WLAN are also provided. Throughout the course, the students acquire the advanced engineering technique and ability to emerging wireless sensing network design issues and applications.

Pre-requisite: ECEN3012

#### **ECEN4009 MICROWAVE AND MILLIMETER WAVE SYSTEM DESIGN**

This course is devoted to the microwave and millimeter wave integrated circuit design from wireless system perspective with focus on broadband applications. Coverage includes OEM system integration, high frequency simulation tools, design of microwave and millimeter wave wireless frontend circuits including low noise amplifier, mixer, oscillator, filter, power amplifier, antenna, characterization and implementation of microwave and millimeter wave integrated systems in CMOS technologies. Throughout the course, the students acquire the advanced engineering technique and ability to emerging broadband systems and applications.

Pre-requisite: ECEN3013

#### **STGC3000 WORK-INTERGRATED EDUCATION**

Work-Integrated Education allows students to gain experience in areas relevant to their fields of study. The student will be encouraged to attend internship training first. If the students cannot attend the internship training due to any reasons, the student should engage in a research project under the supervision of a faculty member assigned by his/her home department.

Pre-requisite: None

### **EMEN1001 ENGINEERING DRAWING I**

This course aims at preparing undergraduate engineering students to be able to understand and create technical drawings as a basic technique in engineering and scientific communication. The course seeks to develop the students' effective utilization of computer-aided drafting software package for producing engineering drawings according to the international conventions and drawing standards.

Pre-requisite: None

### **EMEN1002 ENGINEERING DRAWING II**

Introduction to auxiliary views, mechanical working drawing, gears, cams, intersection and developments, building services drawings and floor plan design.

Pre-requisite: EMEN1001

### **EMEN1003 ENGINEERING MATERIALS**

Interatomic bonding and crystalline structures, imperfections and diffusion in solids, mechanical properties, strengthening mechanisms, failure of materials, phase diagrams and phase transformations, heat treatment of ferrous and non-ferrous alloys, types of engineering materials: metallic, ceramic, polymeric and composite materials.

Pre-requisite: None

### **EMEN1004 STATICS**

Force systems and equilibrium conditions with emphasis on engineering problems. Statics of particles and rigid bodies. Equivalent system of forces. Centroids and centers of gravity, Analysis of structures. Forces in beams and cables. Friction. Moments of inertia. Method of virtual work.

Pre-requisite: None

### **EMEN2000 STRENGTH OF MATERIALS**

Fundamental concepts of mechanics of deformable solids (static equilibrium, compatibility of deformation, and material constitutive behavior etc.) Stress and strain, uniaxial tension test, statically indeterminate structures, temperature effects and thermal stress, torsion of circular shafts, simple bending of beams, shear stresses in beams of different cross-sectional shapes, shear centre, combined stresses due to bending, torsion, shear and axial loads, transformation of stresses, failure criteria and stability and buckling.

Pre-requisite: EMEN1004

### **EMEN2001 THERMODYNAMICS**

Fundamental principles of thermodynamics, foundation in fundamental thermodynamic phenomena including the first and second laws of thermodynamics, thermodynamic properties, equations of state in real and ideal gases. Analysis of engineering systems, such as: gas turbine, compressor, propulsion systems, vapor and gas power cycle, refrigeration cycle, and automobile engines.

Pre-requisite: None

### **EMEN2002 MANUFACTURING TECHNOLOGY**

Introduction to manufacturing industry. Manufacturing system, basic machine tool elements, metal cutting, turning, drilling, boring, milling, grinding, welding, hot and cold working, pressworking, thread and gear working, and nontraditional processes.

Pre-requisite: None

### **EMEN2003 ELECTRICAL ENGINEERING**

Introduction to electrical engineering. Fundamentals of electric circuits. Analysis of electric networks. Computer-aided circuit analysis. AC power. Residential wiring and distribution of AC power. Introduction to electromechanics. Introduction to electric machines. Pre-requisite: None

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**EMEN2004 DYNAMICS**

This course will introduce to students the fundamentals and principles of kinematics and kinetics of particles and rigid bodies. The topics covered include kinematics of particles and rigid bodies, kinetics of particles and rigid bodies, energy and momentum methods, systems of particles, plane motion of rigid bodies, and basics of mechanical vibrations.

Pre-requisite: None

**EMEN2005 COMPUTER-AIDED DESIGN**

Introduction to the fundamentals of computational and numerical geometry for product design. Topics to be covered include design specification, representation and manipulation of curves and surfaces, solid modeling, geometric transformations, graphical visualization, tolerance analysis, and standards for data exchange. The lab practice with prevailing CAD packages enables students to intelligently use them for solving engineering design problems.

Pre-requisite: None

**EMEN2006 MACHINE ELEMENTS**

Introduction to machine elements. Screws, fasteners and the design of nonpermanent joints. Welding and the design of permanent joints. Mechanical springs. Rolling-contact bearings. Lubrication and journal bearings. Gears. Clutches, brakes and couplings. Shaft design. Flexible mechanical elements. Mechanical design and assembly.

Pre-requisite: None

**EMEN2007 MECHATRONICS**

Introduction to the knowledge of mechatronics, control and automation in industrial applications. Sensors and transducers. Signal conditioning. Digital signals. Switches, relays and power-control semiconductors. Motors and motor control. Microprocessor-based control. Programmable logic controllers.

Pre-requisite: None

**EMEN3000 PRODUCTION MANAGEMENT**

Basic management principles. Production and operation management. Production planning. Production control. Project management. Basic quality management and control. Facility planning. Job design. Business angle for product design and TQM concept.

Pre-requisite: None

**EMEN3001 FLUID MECHANICS**

Introduction to basic fluid laws and their applications, fluid statics, conservation equations, continuity and linear momentum equations for control volumes, dimensional analysis, dynamic similarity, flow of incompressible fluids in pipes; boundary-layer concepts, effects of friction, measurement techniques.

Pre-requisite: EMEN1004

**EMEN3002 CONTROL ENGINEERING**

Introduction to control system. Dynamic models and dynamic response. Models of industrial control devices and systems. Feedback control, Routh stability. Root locus plots. The Nyquist stability criterion. Matlab simulation for control systems.

Pre-requisite: EMEN2003

**EMEN3003 HEAT TRANSFER**

Fundamental of heat transfer, including one and two dimensional steady state heat conduction, transient heat conduction, numerical solutions for heat conduction problem, basic convective heat transfer and thermal radiation. Applications of heat transfer in engineering system.

Pre-requisite: EMEN2001

**EMEN3004 COMPUTER ENGINEERING**

Computer organization, memory systems, input and output systems, buses, interfacing,

communication mechanisms, interrupt mechanisms, computer networks, distributed systems, communication in distributed systems, D-A conversion, A-D conversion, computer process controls, building automation systems & controls.

Pre-requisite: None

### **EMEN3005 SOCIETY AND THE ENGINEER**

Industrial health and safety, Washington Accord and the qualification and criteria of professional engineers, professional ethics, bribery and corruption, social responsibilities of engineers. Technical writing skills.

Pre-requisite: None

### **EMEN3006 ADVANCED MANUFACTURING**

Introduction to the fundamental concepts of manufacturing systems, computer-aided process planning, CNC programming, group technology, facility layout, flexible manufacturing system, concurrent engineering, rapid prototyping, and automation, etc. Using of computer-aided manufacturing software and advanced machine tools.

Pre-requisite: EMEN1002 and EMEN2005

### **EMEN3007 ADVANCED MATERIALS FOR ENGINEERING**

Specialisation of materials used in industry such as lightweight materials, corrosion and thermal resistance materials, shape memory alloys, conductors, semiconductors and dielectric, magnetic materials, liquid crystals, superconductors, optical fibers, biomaterials, and nano-materials. Electrical, thermal, magnetic, optical and corrosion properties, and case studies.

Pre-requisite: EMEN1003

### **EMEN3008 AIR CONDITIONING AND REFRIGERATION**

Fundamentals of air conditioning and refrigeration. Psychometrics, cooling and heat load calculations, air conditioning systems, duct design, vapor compression and absorption systems, and the principles of cooling towers.

Pre-requisite: EMEN3003 and EMEN3001

### **EMEN3009 APPLICATIONS OF VIBRATION AND NOISE CONTROL**

Introduction to the guidance in the practice of vibration and noise control. Fundamentals of mechanical vibration and sound waves. Industrial noise and vibration control, interaction between sound wave and solid structures, and statistical energy analysis in noise and vibration. Measurements and signal analysis of noise and vibration.

Pre-requisite: None

### **EMEN3010 COMPUTER TECHNOLOGY IN ENGINEERING**

The purpose and role of variables, constants, and procedures in application programming, control programme execution with decision control and looping structures. Concepts of object-oriented programming (OOP).

Prerequisite: None

### **EMEN3011 CORROSION, WEAR AND DEGRADATION AND MATERIALS**

Costs of corrosion and wear, forms of corrosion, electrochemistry, corrosion thermodynamics and kinetics, high temperature oxidation, metallurgical and environmental factors, corrosion protection, coatings and inhibitors, degradation of polymers, friction and lubricants, wear mechanisms, measurement and testing, analysis and correction of corrosion and wear failures, materials selection and safety.

Pre-requisite: EMEN1003

### **EMEN3012 ELECTRICAL SERVICES- WIRING AND INSTALLATIONS**

Overview of electrical services in building, introduction to wiring regulations, fundamental principles and design applications of electrical wiring installations, electricity distribution in buildings, interconnection facilities, protective devices, protection against direct & indirect

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contacts, cable management, lightning protection, metering, earthing, bonding and reliability of electricity supply.

Pre-requisite: EMEN2003

### **EMEN3013 ELECTROMECHANICAL ENERGY CONVERSION**

AC power, magnetic circuits, principles of electro-magnetism and electro-mechanics, principles of motors and generators, dc machines, synchronous machines, induction machines, dc-dc converters, dc-ac inverters, electric drive systems, variable voltage variable frequency drive systems.

Pre-requisite: EMEN2003

### **EMEN3014 ELECTRONICS AND INSTRUMENTATION**

Basic principles of electronics components and operations of measuring instruments, transducers and signal conditioning techniques. Voltmeter, ammeter, ohmmeters, multi-meters, oscilloscopes, probes, bridges, diodes, bipolar junction transistors (BJT), operational amplifiers (Op Amp), transducers, noise, and filters.

Pre-requisite: EMEN2003

### **EMEN3015 FINITE ELEMENT TECHNIQUES IN ENGINEERING**

Basics of formulating problems in statics, dynamics and heat transfer into finite-element (FE) models. Data pre-processing and post-processing. Use of commercial FE software (ANSYS). Various types of elements: spring element, bar element, Bernoulli and Timoshenko beam elements, truss element, frame element, 3-noded and 6-noded triangular elements, 4-noded quadrilateral element, axisymmetric element and plate element. Isoparametric transformation. Strengths and weaknesses of the various elements. Derivations of elements will be based on different methods, such as the direct stiffness method and the principle of potential energy.

Pre-requisite: EMEN2000 and EMEN2004

### **EMEN3016 FUNDAMENTALS OF AUTOMOTIVE ENGINEERING**

Fundamentals of internal combustion engines. Emission control. Ancillaries. Electronic control units. Transmissions and driveline. Steering systems. Suspensions. Brakes and tires. Engine and vehicle performance tests. Fundamentals of motor vehicle diagnosis and service. Introduction to electric/hybrid vehicles, alternative fuels and fuel-cell technology.

Pre-requisite: None

### **EMEN3017 INDUSTRIAL DATA MANAGEMENT**

Introduction to data management in the modern industry. Designing and specifying information systems, including data modeling techniques and entity-relationship diagrams; Relational database design using the theory of normalization; Building and manipulating databases, including relational algebra, SQL, and graphical user interfaced database manipulations; World wide web based data systems, including an introduction to HTML, web applications, and MySQL.

Pre-requisite: None

### **EMEN3018 INTELLIGENT BUILDINGS**

Principles of sensors, controllers and actuators, building electronics, signal conditioning, networks and communication systems, instrument communication and telemetry, microprocessor based controllers and digital controls; overall systems planning and integration; sustainability and economics; energy conversion technologies, energy use in domestic/non-domestic buildings, design guides, energy management and energy auditing.

Pre-requisite: EMEN2003

### **EMEN3019 INTERNAL COMBUSTION ENGINES**

Engine classification. Engine components. Operating characteristics. Engine cycles. Fuels. Air and fuel induction. Combustion. Modelling of engines. Exhaust flow. Engine cooling. Friction and lubrication. Emissions and air pollution. Engine management systems.

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Pre-requisite: EMEN2001

### **EMEN3023 COMPUTATIONAL FLUID DYNAMICS**

Introduction to Computational Fluid Dynamics. Introduction of finite difference method, finite element method, and Lattice Boltzmann method. Macroscopic, microscopic and mesoscopic length scales. Isothermal and Non-Isothermal incompressible fluid flows. Multi-phase and multi-component flows. Computational fluid dynamics for porous media.

Pre-requisite: None

### **EMEN3024 ENGINEERING MANAGEMENT**

Overview of the techniques of applying management principles to professional positions held by engineers and engineering technologists. Management functions of planning, organizing, leading, and controlling and their roles in managing technology.

Pre-requisite: None

### **EMEN3025 FIRE PROTECTION ENGINEERING**

Fire Engineering is concerned with the applications of scientific and technical principles to the growth, mitigation, and suppression of fire. This includes the effects of fire on people, on structures, on commodities, and on operations. The identification of fire hazards and their risk, relative to the cost of protection, is an important aspect of fire safety design. The fire engineering course mainly covers the fundamental knowledge of fire dynamics and fire modeling. Moreover, the modern fire protection technology such as fire sprinkler and alarm systems, exit and smoke control systems, and the active and passive protection systems is also included in the course. Besides, the plumbing services for fire suppression systems and buildings are also introduced.

Pre-requisite: None

### **EMEN3026 ROBOTICS**

Introduction. Robot terminology. Spatial descriptions and transformations. Manipulator kinematics. Jacobians and static forces. Trajectory generation. Linear and nonlinear control of manipulators. Application of various robots.

Pre-requisite: None

### **EMEN3027 MECHANICAL BEHAVIOUR OF ENGINEERING MATERIALS AND BASIC FAILURE ANALYSIS**

Introduction to the most important mechanical properties of materials (principally metals). Stress and strain, elastic and plastic behaviours, hardening behaviour, ductility and fracture, creep, fatigue, residual stress, etc. Interactions among different failure-inducing mechanisms (e.g., between corrosion and fatigue) will also be covered. Real case studies of failures in engineering will be used to consolidate the theories introduced in this course.

Pre-requisite: EMEN1003

### **EMEN3028 OPTIMIZATION TECHNIQUES AND THEIR APPLICATIONS IN ENGINEERING**

Modelling of engineering problems and introduction of algorithms/methods for obtaining their optimal solutions. The topics include constrained and unconstrained objective functions, simplex method for linear programming, duality analysis, integer programming, mixed programming, linear and non-linear programming, sensitivity analysis, steepest decent method, conjugate gradient method, conjugate direction method, newton's method, and Lagrange multiplier method. The use of computer software programmes (e.g., LINDO and MathCAD) for solving optimisation problems will be covered in this course also.

Pre-requisite: None

### **EMEN3029 PRODUCTION SYSTEMS, PLANNING AND CONTROL**

Elements of production systems. Different types of production systems; Principles and concepts in the design and control of production systems, including organization, production,

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and advanced quality control, work methods and measurement; Mathematical and computer models for planning and control of facilities, human resources, projects, materials, and information in production systems.

Pre-requisite: None

#### **EMEN3030 SPECIAL TOPICS IN ELECTROMECHANICAL ENGINEERING I**

Any specialized topic in Electromechanical Engineering chosen by the staff member who has experienced in that particular field, but the topic is not covered by other undergraduate courses in the Electromechanical Engineering Programme.

Pre-requisite: None

#### **EMEN3031 SPECIAL TOPICS IN ELECTROMECHANICAL ENGINEERING II**

Any specialized topic in Electromechanical Engineering chosen by the staff member who has experienced in that particular field, but the topic is not covered by other undergraduate courses in the Electromechanical Engineering Programme.

Pre-requisite: None

#### **EMEN3032 SPECIAL TOPICS IN ELECTROMECHANICAL ENGINEERING III**

Any specialized topic in Electromechanical Engineering chosen by the staff member who has experienced in that particular field, but the topic is not covered by other undergraduate courses in the Electromechanical Engineering Programme.

Pre-requisite: None

#### **EMEN3033 THEORY OF MECHANISMS**

Synthesis of linkage-type mechanisms using graphical and computer methods. Introduction to mechanisms and simple machines. More on machines and mechanisms. Planar and spatial mechanisms. Kinematics and dynamics of mechanisms. Links. Frames and kinematic chains. Skeleton outline. Pairs. Higher pairs. Lower pairs and linkages. Kinematic analysis and synthesis. Basic kinematics of constrained rigid bodies. Planar linkages. Cams. Gears. Other mechanisms.

Pre-requisite: None

#### **EMEN3034 CREATIVE INDUSTRY**

The course focuses on creative professional identity, creative career development and entrepreneurship, creative ideation and innovation, project development and management, industry partnerships and networking, and interdisciplinary creative work. Students will explore the advantages and challenges of interdisciplinary study and begin to develop strategies for benefitting the most from their creative industries studies.

Pre-requisite: None

#### **EMEN3035 ELECTRIC VEHICLES**

Electric vehicle (EV) is a collective term for battery-powered EV, hybrid EV, plug-in hybrid EV and fuel-cell EV. At present, almost all automobile manufacturers and many electric power utilities have their individual EVs or development programs on EVs. Therefore, the demand for well-trained engineers serving this EV sector has already been significant. With the increasing acceptance of EVs in Macau, this demand will be greatly increased in the coming years. The purposes of the course are:

- To provide students with up-to-date and comprehensive knowledge on various EV technologies
- Provide the necessary skills for students to serve the accelerating EV industry and a good foundation for further research on these technologies
- Understanding the concept of system considerations, system level design and optimization.

Pre-requisite: EMEN2003

#### **EMEN3036 EXTRA-LOW-VOLTAGE ELECTRICAL SYSTEMS IN BUILDINGS**

This course focuses on typical extra-low-voltage electrical systems, their applications in

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buildings and applications in property management.

Pre-requisite: EMEN2003

### **EMEN3037 FACILITY MANAGEMENT**

Facilities management blends the technical demands of building services with managerial responsibilities. The course will build up core competencies that make up the facility management profession, including planning, design, maintenance and sustainability. It ensures the efficient functioning of buildings through integrating people, space, processes and technology. Facility management covers facility location and layout design, intelligent maintenance management, Sustainable facilities management, Service management, quality assessment, and information technology. The students will be trained to gain an understanding of the diverse technologies and decision-making processes in facility management.

Pre-requisite: None

### **EMEN3038 LIGHTING TECHNOLOGY**

This course covers a wide range of lighting systems and their applications in illuminating buildings indoors and outdoors. The subject aims at enabling students to identify, analyze and evaluate basic components and features in lighting systems; and then to apply these components appropriately in building lighting design.

Pre-requisite: EMEN2003

### **EMEN3039 MECHANICAL PROCESSING OF MATERIALS**

The course focuses on the fundamentals and analytical analysis methods for mechanical processing of materials. Its application on bulk and sheet metal forming, shearing and metal cutting are also covered.

Pre-requisite: EMEN2002

### **EMEN3040 NONLINEAR DYNAMICS AND CHAOS**

Introduction to nonlinear dynamics and chaos. Strange attractors; Discrete and continuous chaotic systems; Bifurcation theory and universality; Sensitivity on initial conditions; Stability analysis of nonlinear systems; Lyapunov exponents; Poincaré maps; Fractal dimensions; Phase space reconstruction; Control and synchronization.

Pre-requisite: MATH2001

### **EMEN3041 SELECTION OF MATERIALS FOR ENGINEERING DESIGN**

To make products components that are safe, economical and technically-sound, engineers have to be aware of the importance of materials selection in the design process. Also, to make improvements to and to make failure investigation of existing products, engineers must possess a deep understanding of the material selection process.

This course provides a general overview of the functions/constraints/objectives of the material selection processes (metals, polymers, ceramics, and composites) in design. How processing/manufacturing routes affect material properties and how property/function-based methods are utilised to systematically choose materials for engineering design will also be covered.

Pre-requisite: EMEN1002

### **EMEN3042 SENSORS AND ACTUATORS**

The integration of sensing and actuation is one of the key issues in the implementation of mechatronic systems. Sensing enables the measurement of environmental conditions and actuation affects the surrounding environment through a controlled response. In this course, advanced concepts in sensing and actuation for mechatronic systems are introduced, including both traditional sensors and actuators and advanced topics in micro electromechanical system (MEMS) and smart material sensors and actuators.

Pre-requisite: EMEN2007 and EMEN3002

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**EMEN3043 STATICS AND PROBABILITY FOR ENGINEERING**

An introduction to probability theory and statistics, with an emphasis on solving problems in engineering. Topics in probability include discrete and continuous random variables, probability distributions, sums and functions of random variables, the law of large numbers, and the central limit theorem. Topics in statistics include sample mean and variance, estimating distributions, correlation, regression, and hypothesis testing and engineering applications.

Pre-requisite: None

**EMEN3044 SURFACE ENGINEERING AND COATING TECHNOLOGY**

Engineers face with a wide variety of choices when selecting a surface treatment for a specific corrosion or wear application. This course provides practical information for the selection of the best possible surface treatment. It focuses on the topics including materials degradation, various surface treatments and their comparison; characterization of coatings, application of control techniques.

Pre-requisite: EMEN1003

**EMEN3045 THERMAL ENERGY TRANSPORTATION IN POROUS MEDIA**

Thermal energy transportation in porous media is of interest in a number of engineering applications such as water purification and energy storage systems. As an introduction course to the topic of fluid flow and heat transfer in porous media, this course will introduce modeling approaches for heat and fluid flow in porous media. These models are applicable to a wide variety of media, including sand, soil, tube bundle heat exchangers, and open cell metal foams, which have gained attention in recent years as potentially excellent candidates for meeting the high thermal energy dissipation demands in energy storage and electronics industry.

Pre-requisite: EMEN3001 and EMEN3003

**EMEN4000 GRADUATION PROJECT**

An independent study under the supervision of one or more faculty members. Professional ethics, health, safety and environmental considerations in the engineering project.

Pre-requisite: Final year level

**STGC3000 WORK-INTERGRATED EDUCATION**

Work-Integrated Education allows students to gain experience in areas relevant to their fields of study. The student will be encouraged to attend internship training first. If the students cannot attend the internship training due to any reasons, the student should engage in a research project under the supervision of a faculty member assigned by his/her home department.

Pre-requisite: None

**MATH0001 PRE-CALCULUS**

This is an elementary mathematics course for science & engineering students. The goal of this course is to reinforce students' knowledge in elementary mathematics which is needed in calculus. Offered students with their mathematic subject score below a specific score decided by the Faculty are required to take and complete this course in the Summer Term before admission. If a student cannot pass the test, he/she can redo the test during the first semester after admission.

Pre-requisite: None

**MATH1000 DISCRETE MATHEMATICS**

This course aims at providing students with a solid foundation of basic techniques in discrete mathematics. The topics include elementary set theory, functions, elementary number theory and methods of proof, recursion, counting principle, and graph theory.

Pre-requisite: None

**MATH1001 LINEAR ALGEBRA I**

Systems of Linear Equations and matrices. Gaussian elimination. Determinants. Cramer's rule. Euclidean Spaces. Addition and scalar multiplication of vectors. Linear transformations. Vector

Spaces. Linear independence and linear dependence.

Pre-requisite: None.

### **MATH1002 LINEAR ALGEBRA II**

Vector Spaces. Basis and dimension. Matrices, row spaces, column spaces and null spaces. Rank and nullity. Inner product spaces. Inner products and orthonormal bases. Gram-Schmidt process. Least square problems and orthogonal matrices. Eigenvalues and eigenvectors. Diagonalization, orthogonal diagonalization. Linear transformations. Kernel and range. Inverse linear transformations. Similarity. Additional topics include quadratic forms, unitary, normal, Hermitian matrices, and canonical forms.

Pre-requisite: MATH1001

### **MATH1003 INTERMEDIATE CALCULUS**

Definite integrals. Fundamental theorem of calculus. Applications of definite integrals. Approximations of definite integrals. Sequence and series. Power series and Taylor series.

Pre-requisite: GEST1004

### **MATH1004 GEOMETRY**

Euclidean geometry, Euclidean space, inner product, distance, and angle. Isometries. Vectors in planes and spaces. Lines and planes and surfaces in 3-dimensional space. Linear transformations, projections, orientations and determinants, isomorphisms, and general linear groups. Symmetries and regular polyhedrons. Affine geometry. Affine spaces and affine transformations. Brief discussion on the development of various geometries such as Euclidean and non-Euclidean ones.

Pre-requisite: None

### **MATH2000 ENGINEERING MATHEMATICS I**

Functions of two or more variables and their derivatives. Applications of partial derivatives. Multiple integrals. Vector fields and line integrals. Surface integrals. Analytic functions of a complex variable.

Pre-requisite: GEST1004

### **MATH2001 ENGINEERING MATHEMATICS II**

Introduction to linear algebra. Linear differential equations. Fourier series and integrals. Laplace transform. Introduction to partial differential equations

Pre-requisite: MATH1003

### **MATH2002 MULTIVARIABLE CALCULUS**

Vectors and analytic space geometry. Norms, convergence of vector sequences, open and closed sets, compact sets. Curves, Frenet frames, surfaces. Functions of several variables. Partial derivatives and their applications, linear approximation, differential, Taylor's formula. Method of Lagrange multiplier. Inverse function theorem, implicit function theorem. Multiple integrals. Green's Theorem. Line and surface integrals. Gauss and Stokes' Theorems.

Pre-requisite: GEST1004

### **MATH2003 MATHEMATICAL ANALYSIS I**

The axioms for the real number system. Countable and uncountable sets. Sequence of real numbers. Nested intervals theorem. Bolzano-Weierstrass theorem, Cauchy criterion and Heine-Borel Theorem. Limits and continuity of functions. Properties of continuous functions.

Pre-requisite: GEST1004

### **MATH2004 MATHEMATICAL ANALYSIS II**

Differentiation. Mean value Theorem. L'Hopital's Rule. Inverse function theorem. Integration. Upper and lower integrals. Riemann integrals. Fundamental theorem of calculus. Elementary functions. Series of numbers. Tests for convergence. Series of functions. Uniform convergence. Power series and Taylor series.

Pre-requisite: MATH2003

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**MATH2005    PROBABILITY**

Sample space, random events, and probability. Discrete and continuous random variables. Distributions, densities, joint distribution, and marginal distributions. Conditional probability and independence, Moments, mean, variance, covariance, Chebyshev's inequality, and moment-generation functions. Special probability distributions, densities, and their applications.

Pre-requisite: GEST1004

**MATH2007    NUMERICAL ANALYSIS**

Introduction to algorithm. Error analysis. Interpolation. Remainder of interpolation. Error estimate. Spline function. Numerical integration.

Pre-requisite: MATH1003

**MATH2008    OPERATIONS RESEARCH**

Linear programming and simplex method. Revised simplex method. Duality of linear programming. Sensitivity analysis. Transportation and assignment problems. Network flow problems. Game theory.

Pre-requisite: MATH1001

**MATH2009    LINEAR STATISTICAL ANALYSIS**

This course is used to study the way a response variable depending on an unknown, linear combination of explanatory and/or classification variables. This course focuses on the theory of linear models and the topics include: linear regression model, general linear model, prediction problems, sensitivity analysis, analysis of incomplete data, robust regression, multiple comparisons, introduction to generalized linear models.

Pre-requisite: MATH2006

**MATH2010    COMPUTATIONAL STATISTICS**

Statistical computing is an essential part of modern statistics. Students will learn the core of ideas of programming—functions, objects, data structures, input and output, debugging, logical design and abstraction—through writing code to assist in numerical and graphical statistical analyses. Students will learn how to write maintainable code, as well as debug and test code for correctness. They will learn how to set up and run stochastic simulations, how to fit basic statistical models and assess the results, and how to work with and filter large data sets. Since code is an important form of communication among scientists, students will also learn how to comment and organize code.

Pre-requisite: MATH2006

**MATH2011    INTRODUCTION TO SCIENTIFIC COMPUTING**

The course is a start for the series courses in Department of Mathematics towards the scientific computing in applied mathematics. The content of the course consists of an introduction to data structures and algorithms, and their applications in mathematical problems.

Pre-requisite: None

**MATH3000    ORDINARY DIFFERENTIAL EQUATIONS**

First-order differential equations. Second-order linear differential equations. Higher order linear differential equations. Systems of differential equations. Power series solutions of linear differential equations, Sturm-Liouville problems. Laplace transforms. Existence and uniqueness theorem of first-order differential equations. Simple modeling problems.

Pre-requisite: MATH1003

**MATH3001    COMPLEX ANALYSIS**

Complex numbers. Polar coordinates. Functions of a complex variable. Limits. Derivatives of complex functions. Cauchy-Riemann equations. Harmonic functions, harmonic conjugates. Elementary complex functions, Mobius transformations. Contour integrals. Cauchy-Goursat Theorem. Cauchy integral formula. Liouville's theorem. Maximum moduli of functions. Taylor series. Laurent series. Residue theorems. Evaluation of improper integrals. Rouché's theorem.

Pre-requisite: MATH1003

### **MATH3002 INTRODUCTION TO STOCHASTIC PROCESS**

Conditional expectation, conditional probability, and convergences of random variables. Poisson process and compound Poisson process. Markov chain and Markov processes. Stochastic processes with independent increments, stationary process, and the ergodic theorem. Brownian motion and diffusions.

Pre-requisite: MATH2005

### **MATH3004 PARTIAL DIFFERENTIAL EQUATIONS**

Characteristics, classification of PDE, separation of variables, Fourier transform, and Laplace transform. Well-posedness of the wave and the heat equations. Boundary value problems for the Laplace and Poisson equations. Separation of variables.

Pre-requisite: MATH2002 and MATH3000

### **MATH3009 TIME SERIES ANALYSIS**

Time series and stationary processes. Autocovariance and partial autocorrelation functions. Tests for stationarity. Linear stationary models, autoregressive models, moving average models, and mixed autoregressive-moving average models. Model identification, estimation and testing. Seasonal models. Applications of times series forecasting.

Pre-requisite: MATH2006

### **MATH3011 NUMERICAL MATRIX ANALYSIS**

Matrix factorizations. Perturbation and error analysis. Operation cost and convergence rate. Direct Methods for linear systems. LU and Cholesky factorizations. Perturbation and error analysis. Vector and matrix norms. Perturbation analysis for linear systems. Error analysis. Classical iterative methods. Jacobi and Gauss-Seidel method. Convergence analysis. SOR method. Krylov subspace methods. Steepest descent method. Conjugate gradient method. Practical CG method and convergence analysis. Preconditioning. GMRES method.

Pre-requisite: MATH1002 and MATH2002

### **MATH3012 INTRODUCTION TO COMPUTATIONAL INTELLIGENCE**

The artificial neuron and its learning. Supervised learning neural networks. Back propagation algorithm. Feedforward multilayer ANN. Approximation theorem of ANN. Genetic algorithms. Travelling salesman problem and applications of computational intelligence methods in finance and engineering.

Pre-requisite: MATH1003

### **MATH3013 MATHEMATICAL MODELING**

Modeling techniques for analysis or decision-making. The detailed content in this course can vary from extending students' training and understanding in applied mathematical knowledge to further study in specific areas in applied mathematics.

Pre-requisite: MATH1003

### **MATH3014 TOPICS IN APPLIED MATHEMATICS**

Content and reading materials are to be determined by the instructor. Students have to give presentations on the reading materials.

Pre-requisite: Final year students only

### **MATH3015 INTRODUCTION TO FINANCIAL MATHEMATICS**

Financial derivatives, vanilla options, and exotic options. Binomial financial model and Cox-Ross-Rubinstein option pricing formula. Black-Scholes financial model and Black-Scholes option pricing formula. No-arbitrage, risk-neutral probability, and the completeness of financial market.

Pre-requisite: MATH3002

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### **MATH3017 DATA-DRIVEN SAMPLING METHODS**

The course will deal with sampling methods under various statistical frameworks. The course will present principles in the design and analysis of clinical trials, limitations of observational studies and possible solutions, and principles of sampling from finite populations. The purpose of the course is to introduce sampling methods and data analysis emphasizing key statistical aspects of the experiment design; to present the advantages and limitations of different methods, and to choose an appropriate method to each statistical problem.

Pre-requisite: MATH2006

### **MATH3018 MULTIVARIATE DATA ANALYSIS**

This course focuses on the classical theory and methods of multivariate statistical analysis. Topics include: distribution theory, multivariate normal distribution, Hotelling's T-square and Wishart distributions, inference on the mean and covariance, principal components and canonical correlation, factor analysis, discrimination and classification.

Pre-requisite: MATH2002 and MATH2009

### **MATH3020 BAYESIAN METHOD IN DATA ANALYSIS**

The aim of this course is to introduce students to the Bayesian statistical modelling and inference and to the related computational strategies and algorithms. The course starts with the treatment of simple models, such as those based on normal and binomial distributions. Some advanced models will be treated, including hierarchical models, linear regression models and generalized linear models. Bayesian computational methods (MCMC), including Gibbs sampler and Metropolis-Hastings algorithms, are presented with an emphasis on the issues related to their implementation and monitoring of convergence.

Pre-requisite: MATH2006

### **MATH3021 DATA MINING AND STATISTICAL LEARNING**

The course covers statistical techniques and tools such as kernel methods for estimating the density and regression functions, machine learning, hidden Markov Chain, Expectation-Maximization algorithm, classification, cluster analysis and support vector machines for analysing large data sets and for searching for unexpected relationships in the data. It also covers model selection for searching through a large collection of potential local models that describe some aspects of the data in an easily understandable way.

Pre-requisite: MATH2009

### **MATH3025 TOPICS IN STATISTICS AND DATA SCIENCE**

The course will introduce some other topics besides the contents covered by other courses. The main topics include actuarial statistics, analysis of longitudinal data, categorical data analysis, etc.

Pre-requisite: None

### **MATH3026 REAL ANALYSIS**

The content of differentiation and integration for single variable real functions will be extended to a more general context in this course. The topics of this course include measure theory, theory of Lebesgue integration, differentiation and integration theory for Lebesgue integral, as well as an introduction to Hilbert spaces.

Pre-requisite: MATH2003

### **MATH3027 FUNCTIONAL ANALYSIS**

The course is an undergraduate level course in functional analysis. Classically, functional analysis is the study of infinite dimensional vector spaces of functions and linear operators between them. This class deals with relevant function spaces (normed vector spaces, Banach and Hilbert spaces), spaces for, bounded linear operators on normed vector spaces, fundamental principles of functional analysis (i.e., Hahn-Banach Theorem, Uniform Boundedness Principle, Open Mapping Theorem and Closed Graph Theorem) and their applications, spectral theory of compact linear operators and spectral theory of compact self-

adjoint operators on Hilbert spaces.

Pre-requisite: MATH2003

### **MATH3028 NUMERICAL LINEAR ALGEBRA**

This course is intended as a first introduction to the methods of numerical linear algebra. The content of the course consists of an introduction to numerical methods for solving linear systems, least square problems, and eigenvalue problems.

Pre-requisite: MATH1002 and MATH2004

### **MATH3029 TOPICS IN APPLIED ANALYSIS**

The field of Applied analysis brings together many mathematical topics, such as scientific computing, differential equations, dynamical systems, signal and image analysis, statistical methods, integral transformation, and approximation theory. Applied Analysis focuses on these mathematical disciplines and their application to the real world around us.

Pre-requisite: MATH1001 and MATH2004

### **MATH4005 NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS**

This course presents mathematical and computational fundamentals of the numerical solution for scientific problems. It covers

- Explicit and implicit methods for ordinary differential equations
- Finite difference methods for partial differential equations (elliptic, parabolic, hyperbolic equations)
- Finite element methods for elliptic equations
- Consistency, convergence, stability of numerical methods
- Solution of linear systems

Pre-requisite: MATH3004, MATH2007 and MATH2011

### **MATH4000 ELEMENTARY NUMBER THEORY**

Divisibility theory of the integers, primes, unique factorization, congruence. Fermat's little theorem, Diophantine equations. Quadratic residues and quadratic reciprocity laws, primitive roots. Pell's equations and continued fractions.

Pre-requisite: None

### **MATH4002 RESEARCH IN MATHEMATICS**

The students will study selected topics in mathematics under supervision of a faculty member.

The student has to submit a report and give a presentation of the study for assessment.

Pre-requisite: Final year students only

### **MATH4003 NONPARAMETRIC STATISTICS**

This course focuses on the theory and methods of making statistical inference based on nonparametric techniques. Students will see the analyses of real data from various areas of applications. Topics include properties of order statistics, statistics based on ranks, distribution-free statistics, inference concerning location and scale parameters for one and two samples, Hajek's projection.

Pre-requisite: MATH2006

### **MATH4004 GRADUATION PROJECT**

Under the supervision of a faculty member, a student will carry out a focus study of a research topic in statistics or do some case studies based on collected data sets. The students are required to submit a report and give a presentation of the study for assessment.

Pre-requisite: Final year students only

### **STGC1001 GENERAL CHEMISTRY**

This course addresses the basic concepts of chemistry and tests theories through experiments. The course covers topics, ranging from basic properties of gases, liquids & solids, chemical kinetics, chemical equilibria, to basic organic molecules, which form a foundation for concepts

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that will be later developed in Environmental Engineering I & II.  
Pre-requisite: None



PROGRAMMES OF STUDY

## **Faculty of Social Sciences**

### **Doctoral Degree Programmes**

#### AREAS OF STUDY

- Communication
- Economics
- Political Science
- Psychology
- Public Administration
- Sociology

## Doctoral Degree Programmes

### Doctor of Philosophy

- Communication

	<b>Credits</b>
<b>Doctoral Thesis</b>	
COMM8999 Doctoral Thesis	18
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SSGC8807 Academic Writing and Scholarship	3
COMM8854 Academic Writing for Communication Research	3
<b>Required Electives</b>	
Choose 2 of the following courses:	6
SSGC8802 Quantitative Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8806 University Teaching and Practice	
SSGC8808 Social Theory	
<b>Grand Total:</b>	<b>30</b>

FACULTY OF SOCIAL SCIENCES

# Doctoral Degree Programmes

## Doctor of Philosophy

- Communication with Specialization in Visual Communication

	Credits
<b>Doctoral Thesis</b>	
COMM8099 Doctoral Thesis	18
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SSGC8807 Academic Writing and Scholarship	3
COMM8000 Academic Writing for Visual Communication Research	3
<b>Required Electives</b>	
Choose 2 of the following courses:	6
COMM8001 Visual Communication Theory and Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8806 University Teaching and Practice	
SSGC8808 Social Theory	
<b>Grand Total:</b>	<b>30</b>

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Economics

	Credits
<b>Doctoral Thesis</b>	
ECON8999 Doctoral Thesis	18
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SSGC8807 Academic Writing and Scholarship	3
<b>Required Electives</b>	
Choose 1 of the following courses:	3
SSGC8802 Quantitative Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8808 Social Theory	
SSGC8806 University Teaching and Practice	
Choose 2 of the following courses*:	6
ECON8807 Advanced Topics in Microeconomics	
ECON8806 Advanced Topics in Macroeconomics	
ECON8805 Advanced Topics in Econometrics	
<b>Total Credits:</b>	<b>30</b>
<b>For students admitted without a relevant Master's degree</b>	
In addition to the above, students are required to take 2 of the following courses:	6
ECON7700 Microeconomic Theory	
ECON7730 Macroeconomic Theory	
ECON7760 Methods of Economic Research	
ECON7761 Econometric Analysis I	
<b>Grand Total:</b>	<b>36</b>

#### Notes:

\* "Advanced Topics in Microeconomics", "Advanced Topics in Macroeconomics" and "Advanced Topics in Econometrics" can be substituted by another FSS PhD course upon recommendation of the student's supervisor and/or Advisory Committee.

FACULTY OF SOCIAL SCIENCES

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Political Science

	Credits
<b>Doctoral Thesis</b>	
GPAD8199 Doctoral Thesis	18
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SSGC8807 Academic Writing and Scholarship	3
GPAD8100 Selected Topics in Political Science	3
<b>Required Electives</b>	
Choose 2 of the following courses:	6
SSGC8802 Quantitative Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8808 Social Theory	
SSGC8806 University Teaching and Practice	
<b>Total Credits:</b>	<b>30</b>
<b>For students admitted without a relevant Master's degree</b>	
In addition to the above, students are required to take 2 of the following courses:	6
GPAD7303 Seminar on International Relations	
GPAD7313 Seminars on Current Issues	
GPAD7314 Seminars on Selected Topics of International Relations	
<b>Grand Total:</b>	<b>36</b>

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Psychology

	<b>Credits</b>
<b>Doctoral Thesis</b>	
PSYC8999 Doctoral Thesis	18
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SSGC8807 Academic Writing and Scholarship	3
<b>Required Electives</b>	
Choose 1 of the following courses:	3
SSGC8802 Quantitative Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8808 Social Theory	
SSGC8806 University Teaching and Practice	
Choose 2 of the following courses:	6
PSYC8805 Advanced Topics in Psychological Research Methods	
PSYC8810 Seminar in Psychological Sciences	
PSYC8811 Seminar in Personality and Social Psychology	
PSYC8812 Seminar in Applied Psychology	
PSYC8813 Seminar in Selected Topics in Psychology	
<b>Grand Total:</b>	<b>30</b>

## FACULTY OF SOCIAL SCIENCES

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Public Administration

		Credits
<b>Doctoral Thesis</b>		
GPAD8099	Doctoral Thesis	18
<b>Compulsory Courses</b>		
SSGC8809	Research Ethics	--
SSGC8807	Academic Writing and Scholarship	3
GPAD8000	Selected Topics in Public Administration*	3
<b>Required Electives</b>		
Choose 2 of the following courses:		6
SSGC8802	Quantitative Research Methods	
SSGC8803	Qualitative Research Methods	
SSGC8808	Social Theory	
SSGC8806	University Teaching and Practice	
<b>Total Credits:</b>		<b>30</b>
<b>For students admitted without a relevant Master's degree</b>		
In addition to the above, students are required to take 2 of the following courses:		6
GPAD7100	Public Administration: Theory and Practice	
GPAD7101	Public Policy Analysis	
GPAD7102	Public Finance	
GPAD7103	Human Resources Management	
<b>Grand Total:</b>		<b>36</b>

**Notes:**

\* Seminar on Selected Topics in Public Administration course can be substituted by another FSS course upon recommendation of the student's supervisor and/or Advisory Committee.

# Doctoral Degree Programmes

## Doctor of Philosophy

### • Sociology

	Credits
<b>Doctoral Thesis</b>	18
SOCY8999 Doctoral Thesis	
<b>Compulsory Courses</b>	
SSGC8809 Research Ethics	--
SOCY8806 Academic Writing and Scholarship	3
SOCY8805 Selected Topics in Advanced Sociological Research	3
<b>Required Electives</b>	
Choose 2 of the following courses:	6
SSGC8802 Quantitative Research Methods	
SSGC8803 Qualitative Research Methods	
SSGC8806 University Teaching and Practice	
SSGC8808 Social Theory	
SOCY8801 Selected Topics in Specialized Theories	
SOCY8802 Selected Topics in Advanced Research Methods	
<b>Total Credits:</b>	<b>30</b>
<b>For students admitted without a relevant Master's degree</b>	
In addition to the above, students are required to take 1 of the following courses:	3
SOCY7700 Criminology and Criminal Justice	
SOCY7703 Applied Statistics	
SOCY7710 Research Methods	
SOCY7720 Special Topics in Criminology and Criminal Justice I	
<b>Grand Total:</b>	<b>33</b>



FACULTY OF SOCIAL SCIENCES

# Doctoral Degree Programmes

## Doctor of Public Administration

		Credits
<b>Doctoral Thesis</b>		
SSGC8099	Doctoral Thesis	18
<b>Compulsory Courses</b>		
SSGC8000	Governance System and Governing Capability	3
SSGC8001	Public Policy Analysis	3
SSGC8002	Public Administration Theory and Practice	3
SSGC8003	Comparative Public Administration	3
SSGC8004	Public Administration in China	3
SSGC8005	Research Methods in Public Administration	3
SSGC8006	Ethics And Public Affairs	3
SSGC8007	Public Administration and Policy Research	3
<b>Required Electives</b>		
Choose 2 of the following courses:		6
SSGC8010	Current Issues in Public Administration and Public Policy	
SSGC8011	Current Issues in Economics and Finance	
SSGC8013	Current Issues in Social Security and Social Welfare	
SSGC8015	E-Government and Digital Governance	
SSGC8016	Public Crisis Management	
<b>Grand Total:</b>		<b>48</b>

# Master's Degree Programmes

## Master of Arts

- **Communication with Specialization in Communication and New Media**

Year I	Credits
<b>Compulsory Courses</b>	
COMM7702 Research Methods of Communication	3
COMM7706 New Media and Communication Studies	3
COMM7721 Academic Writing and Scholarship	3
<b>Required Electives</b>	
Choose 5 from the following:	15
COMM7701 Theories of Communication	
COMM7703 Communication Patterns and Culture in Greater China	
COMM7704 International and Intercultural Communication	
COMM7705 Public Opinion	
COMM7707 Special Topics in Journalism and Digital Media	
COMM7708 Special Topics on Advertising	
COMM7709 Special Topics on Public Relations	
COMM7711 Communication and Social Change	
COMM7712 Media Function and Management	
COMM7714 Professional Writing in English	
COMM7715 Digital Media	
COMM7716 Special Topics on Communication and Society	
COMM7717 Special Topics on Communication and Culture	
COMM7718 Special Topics on Communication Research	
COMM7719 Creative and Cultural Industries: A Media Studies Approach	
<b>Total Credits:</b>	<b>24</b>
<b>Year II</b>	<b>Credits</b>
COMM7998 Project Report	6
<b>Grand Total:</b>	<b>30</b>

FACULTY OF SOCIAL SCIENCES

# Master's Degree Programmes

## Master of Arts

- **Communication with Specialization in Visual Communication**

Year I		Credits
<b>Compulsory Courses</b>		
COMM7000	Visual Communication History Seminar	3
COMM7702	Research Methods of Communication	3
COMM7706	New Media and Communication Studies	3
<b>Required Electives</b>		
Choose 5 from the following:		15
COMM7001	Visual Communication Theory	
COMM7003	Visual Communication: Practice and Critique	
COMM7004	Research and Creative Activities	
COMM7704	International and Intercultural Communication	
COMM7715	Digital Media	
COMM7719	Creative and Cultural Industries: A Media Studies Approach	
<b>Total Credits:</b>		<b>24</b>
<b>Year II</b>		<b>Credits</b>
COMM7098	Project Report	6
<b>Grand Total:</b>		<b>30</b>

# Master's Degree Programmes

## Master of Social Sciences

### • Clinical Psychology

		Credits
<b>Compulsory Courses</b>		
PSYC7702	Psychological Assessment: Cognitive Abilities	3
PSYC7701	Psychological Assessment: Neuropsychology	3
PSYC7703	Psychological Assessment: Personality/Emotion	3
PSYC7010	Psychotherapy: Psychoanalysis Therapy	3
PSYC7007	Psychotherapy: Humanistic Therapy	3
PSYC7008	Psychotherapy: Cognitive-Behavioral Therapy	3
PSYC7009	Psychotherapy: Family Therapy	3
PSYC7705	Psychopathology	3
PSYC7001	Ethical Issues in Psychology	3
PSYC7706	Neuropsychology	3
PSYC7707	Health Psychology	3
PSYC7006	Psychopharmacology	3
PSYC7704	Research Methods in Psychology	3
PSYC7709	Selected Topics in Human Development and Mental Health	3
PSYC7710	Advances and Trends in Clinical Psychology	3
PSYC7711	Clinical Practicum & Supervision I	3
PSYC7712	Clinical Practicum & Supervision II	3
PSYC7713	Clinical Practicum & Supervision III	3
PSYC7999	Thesis	6
<b>Grand Total:</b>		<b>60</b>

FACULTY OF SOCIAL SCIENCES

# Master's Degree Programmes

## Master of Social Sciences

- Criminology and Criminal Justice

Year I		Credits
<b>Compulsory Courses</b>		
SOCY7700	Criminology and Criminal Justice	3
SOCY7701	Criminological Theories	3
SOCY7703	Applied Statistics	3
SOCY7710	Research Methods	3
<b>Required Electives</b>		
Choose 4 from the following:		12
SOCY7704	Policing	
SOCY7705	Corrections	
SOCY7711	Comparative Criminology	
SOCY7712	Substance Abuse and Addiction	
SOCY7713	Advanced Statistics	
SOCY7715	Criminal Psychology	
SOCY7720	Special Topics in Criminology and Criminal Justice I	
SOCY7721	Special Topics in Criminology and Criminal Justice II	
SOCY7722	Juvenile Delinquency	
SOCY7723	Qualitative Research Methods in Criminology and Criminal Justice	
<b>Total Credits:</b>		<b>24</b>
<b>Year II</b>		<b>Credits</b>
SOCY7998	Project Report	6
<b>Grand Total:</b>		<b>30</b>

# Master's Degree Programmes

## Master of Social Sciences

### • Economics

Year I		Credits
<b>Compulsory Courses</b>		
ECON7700	Microeconomic Theory	3
ECON7730	Macroeconomic Theory	3
ECON7760	Methods of Economic Research	3
ECON7761	Econometric Analysis I	3
<b>Required Electives</b>		
Choose 4 from the following:		12
ECON7731	International Trade and Finance	
ECON7732	Development Economics	
ECON7701	Public Economics	
ECON7702	Labour Economics	
ECON7703	Industrial Organization	
ECON7733	Monetary Economics	
ECON7780	The Chinese Economy	
ECON7781	Regional Economies (Asia-Pacific/European Monetary Union)	
ECON7762	Econometric Analysis II	
ECON7763	Advanced Topics in Economic Theory	
<b>Total Credits:</b>		<b>24</b>
Year II		Credits
ECON7998	Project Report	6
<b>Grand Total:</b>		<b>30</b>

## FACULTY OF SOCIAL SCIENCES

# Master's Degree Programmes

## Master of Social Sciences

### • European Studies

Year I		Credits
<b><u>Module 1</u></b>	<b><u>General</u></b>	
GPAD7521	Public Policy and Politics	1
GPAD7522	Governments and EU Governance	1
GPAD7523	Social Policy and European Identity	1
GPAD7524	History of European Integration	1
GPAD7504	Research Methods	1
GPAD7505	Academic Writing	1
GPAD7525	Seminar on Selected Topics about European Politics, Governance, Social or Public Policies	1.5
<b><u>Module 2</u></b>	<b><u>Economics</u></b>	
GPAD7526	Introduction to Macroeconomics	1
GPAD7527	Theory of European Integration	1
GPAD7528	Economic Policies of The EU	1.5
GPAD7529	The European Monetary Union in the World Context	1
GPAD7510	Globalization and EU's Foreign Direct Investment	1
GPAD7514	EU and Sustainable Development	1
GPAD7530	Seminar on Selected Topics about European Economy	1
<b><u>Module 3</u></b>	<b><u>Legal Framework</u></b>	
GPAD7531	EU Law I: Institutions and Treaties	1
GPAD7532	EU Law II: Four Freedoms	1.5
GPAD7533	Seminar on Selected Topics in the Legal & Institutional Aspects of the EU	1
<b><u>Module 4</u></b>	<b><u>EU and the world</u></b>	
GPAD7534	Theory of International Relations	1
GPAD7535	EU and the World I: The Neighbourhood	1
GPAD7536	EU and the World II: EU-Asia Relations	1.5
GPAD7520	EU and the World III: The Rest of the World	1
GPAD7537	Seminar on Selected Topics About EU's Common Foreign & Security Policies	1
<b>Total Credits:</b>		<b>24</b>
<b>Year II</b>		<b>Credits</b>
GPAD7598	Project Report	6
<b>Grand Total:</b>		<b>30</b>

# Master's Degree Programmes

## Master of Social Sciences

### • International Relations

Year I		Credits
<b>Compulsory Courses</b>		
GPAD7316	Theories of International Relations	3
GPAD7306	International Organizations and Global Governance	3
GPAD7312	Research Design in International Relations	3
<b>Required Electives</b>		
Choose 5 from the following:		15
GPAD7303	Contemporary International Relations	
GPAD7305	Global Political Economy	
GPAD7314	Selected Topics in International Relations	
GPAD7317	China-Europe Relations	
GPAD7318	China's Relations with Portuguese-speaking Countries	
GPAD7319	Chinese Foreign Policy	
GPAD7320	Data Science for International Relations	
GPAD7321	History of International Relations	
GPAD7322	International Relations of the Asia-Pacific	
GPAD7323	International Security	
<b>Total Credits:</b>		<b>24</b>
<b>Year II</b>		<b>Credits</b>
GPAD7398	Project Report	6
<b>Grand Total:</b>		<b>30</b>



FACULTY OF SOCIAL SCIENCES

# Master's Degree Programmes

## Master of Social Sciences

- Public Administration

Year I		Credits
<b>Compulsory Courses</b>		
GPAD7100	Public Administration: Theory and Practice	3
GPAD7102	Public Finance	3
GPAD7103	Human Resources Management	3
<b>Required Electives</b>		
Choose 5 from the following:		15
GPAD7101	Public Policy Analysis	
GPAD7104	Public Policy in China	
GPAD7105	Public Administration in Contemporary China	
GPAD7106	Organizational Behavior	
GPAD7107	Political Economy	
GPAD7108	Research Methods in Public Administration	
GPAD7109	Constitutional Law	
GPAD7110	Administrative Law	
GPAD7111	Decision Making: Theory and Practice	
GPAD7112	Research Design	
<b>Total Credits:</b>		<b>24</b>
Year II		Credits
GPAD7198	Project Report	6
<b>Grand Total:</b>		<b>30</b>

# Master's Degree Programmes

## Master of Social Sciences

### • Public Security Management

This programme is jointly offered by University of Macau and Escola Superior das Forças de Segurança de Macau (ESFSM)

Year I		Credits
<b>Compulsory Courses</b>		
SSGC7100	Research Methods on Police Affair	3
SSGC7101	Studies of Criminal Investigation	3
SSGC7102	Criminological Theory	3
SSGC7103	Policing Tactics and Combat	3
SSGC7104	Strategy and Practice of Crime Prevention and Control	3
SSGC7105	Theories and Practice of Criminal Law	3
SSGC7106	Theories and Practice of Community Policing	3
SSGC7107	Modern Policing Technology	3
SSGC7108	Social Issues and Governance	3
SSGC7109	Public Relations and Media Communication Skills	3
<b>Total Credits:</b>		<b>30</b>
Year II		Credits
SSGC7197	Internship and Report	3
<b>Grand Total:</b>		<b>33</b>

FACULTY OF SOCIAL SCIENCES

# Master's Degree Programmes

## Master of Philosophy

- Macao Studies

Year I		Credits
<b>Compulsory Courses</b>		
SSGC7001	Research Seminars on Macao Studies	3
SSGC7002	Macao History	3
SSGC7003	Contemporary Issues of Macao	3
SSGC7004	Research Methods	3
<b>Required Electives</b>		
Choose 2 from the following*:		6
SSGC7005	Culture and Society of Macao	
SSGC7007	Literature and the Arts in Macao	
SSGC7010	Urban Geography of Macao	
SSGC7011	Historical Heritage of Macao	
SSGC7012	Selected Topics I	
SSGC7013	Selected Topics II	
SSGC7015	The Macao Economy	
SSGC7016	Politics and Political System in Macao	
SSGC7017	Regional Studies	
SSGC7018	Research Practice	
<b>Total Credits:</b>		<b>18</b>
<b>Year II</b>		<b>Credits</b>
SSGC7990	Thesis	12
<b>Grand Total:</b>		<b>30</b>

### Remarks:

\* With prior approval of the Programme Coordinator, up to one of the required elective courses may be a master level course outside of the programme

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

### • Communication

Year I	Credits
COMM1000 Interpersonal Communication	3
COMM1002 Introduction to News and Journalism	3
Community and Peer Education Courses	2
3 General Education Courses	9
Languages & Skills – English Language Course or Free Electives	6
Languages & Skills – Chinese/Portuguese Language Course or Free Electives	3
Languages & Skills – Information Technology Course	3
<b>Total Credits:</b>	<b>29</b>

Year II	Credits
COMM1001 New Media	3
COMM2001 Introduction to Public Relations	3
COMM2004 Introduction to Culture and Communication	3
COMM2011 English News Writing	3
COMM2012 Chinese News Writing	3
Community and Peer Education Courses	1
1 Communication Specialization Elective	3
1 General Education Course	3
Languages & Skills – English Language Course or Free Electives	3
2 Free Electives	6
<b>Total Credits:</b>	<b>31</b>

Year III	Credits
COMM2003 Fundamentals of Visual Culture	3
COMM2010 Intercultural Communication	3
COMM3002 Quantitative Methods	3
2 Communication Specialization Electives	6
3 General Education Courses	9
2 Free Electives	6
<b>Total Credits:</b>	<b>30</b>

Year IV	Credits
COMM3003 Qualitative Research Methods	3
COMM4003 Field Internship	3

**2 Communication Capstone Projects from the following:** 6  
*Students are required to take 2 relevant courses according to their choice of Specialization:*

***Creative Media***

COMM4007 Workshop: Video I

COMM4008 Workshop: Video II

OR

***Public Communication***

COMM4005 Workshop: Event Planning and Implementation

COMM4010 Integrated Communication Campaigns

OR

***Journalism and Mass Communication***

COMM4006 Workshop: Chinese Publication

COMM4009 Workshop: English Publication

2 General Education Courses	6
4 Free Electives	12

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**Total Credits:** 30

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<b>Grand Total:</b>	<b>Credits</b> 120
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**Communication Specialization Electives**

Students are required to choose 2 Specialization Compulsory courses, plus any 1 other course from the Specialization Electives List of the **SAME Specialization**.

**Creative Media:**

***Specialization Compulsory***

COMM2006 Video Production

COMM2007 Photography

***Specialization Electives***

COMM2013 Animation I

COMM3004 Digital Graphics

COMM3005 Multimedia Design

COMM3015 Advanced Video Production

COMM3016 Documentary

COMM3017 Scriptwriting

COMM3024 Animation II

COMM3025 Cinema Studies

COMM3026 Cultural Industries and Policies

COMM4015 Special Topics in Creative Media

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**Public Communication:*****Specialization Compulsory***

- COMM2005 Advertising
- COMM3020 Crisis Management

***Specialization Electives***

- COMM3006 Advertising Planning and Strategy
- COMM3007 Public Relations Planning and Strategy
- COMM3008 Public Opinion
- COMM3009 Persuasion: Theory and Practice
- COMM4000 Organizational Communication
- COMM4011 Media Management
- COMM4012 Special Topics in Public Communication
- COMM4013 Writing for Public Relations and Advertising

**Journalism and Mass Communication:*****Specialization Compulsory***

- COMM2002 Media & Society
- COMM3010 Advanced News Writing and Reporting in Chinese

***Specialization Electives***

- COMM2009 Chinese Media History
- COMM3001 Communication Theory
- COMM3011 Advanced News Writing and Reporting in English
- COMM3012 Chinese News Editing
- COMM3013 English News Editing
- COMM3018 Broadcast News Writing in Chinese
- COMM3019 Gender, Media and Diversity
- COMM3021 Broadcast Journalism
- COMM3022 New Media Journalism
- COMM3023 Political Communication
- COMM3027 Macao Media and Culture
- COMM3028 Popular Culture and Communication
- COMM4001 Global Media Studies
- COMM4002 Media Law and Ethics
- COMM4004 Graduation Project

FACULTY OF SOCIAL SCIENCES

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

- Economics

Year I	Credits
ECON1000 Basic Microeconomics	3
ECON1001 Basic Macroeconomics	3
ECON1002 Mathematics I	3
ECON1003 Mathematics II	3
Community & Peer Education Courses	2
Languages & Skills – English Language Courses or Free Electives	6
5 General Education Courses	15
<b>Total Credits:</b>	<b>35</b>

Year II	Credits
ECON2000 Statistics I	3
ECON2001 Statistics II	3
ECON2002 Intermediate Microeconomics I	3
ECON2003 Intermediate Microeconomics II	3
ECON2004 Intermediate Macroeconomics I	3
ECON2005 Intermediate Macroeconomics II	3
Community & Peer Education Courses	1
Languages & Skills – English Language Course or Free Electives	3
Languages & Skills – Chinese/Portuguese Language Course or Free Electives	3
Languages & Skills – Information Technology Course	3
3 General Education Courses	9
<b>Total Credits:</b>	<b>37</b>

Year III	Credits
ECON3002 Econometrics I	3
ECON3020 Research Project on Social Sciences I	3
2 Required Electives in Economics®	6
1 General Education Course	3
3 Free Electives	9
<b>Total Credits:</b>	<b>24</b>

<b>Year IV</b>	<b>Credits</b>
6 Required Electives in Economics®	18
2 Free Electives	6
<b>Total Credits:</b>	<b>24</b>
	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

Remark: Out of the 24 credits for @ Required Elective in Economics (RE), a student is required to take at least 5 courses (or at least 15 credits) from the list of economics required electives. For the rest 3 courses (9 credits), students may choose from the list of economics required electives or the list of no-pre-requisite or internship required electives.

A student is required to take at least 5 courses (or at least 15 credits) from the following 25 economics required electives:

#### **List of Economics Required Electives**

ECON3000 Managerial Economics  
ECON3001 Money and Banking  
ECON3003 Econometrics II  
ECON3004 Mathematics for Economics  
ECON3005 Forecasting Methods in Economics  
ECON3006 International Trade  
ECON3007 International Monetary Economics  
ECON3010 Development Economics I  
ECON3011 Development Economics II  
ECON3012 Institutional Economics  
ECON3013 Urban Economics  
ECON3016 History of Economic Thought  
ECON3019 Applied Economics  
ECON4000 Advanced Microeconomics  
ECON4001 Game Theory  
ECON4002 Economics of Information  
ECON4003 Welfare Economics  
ECON4004 Advanced Macroeconomics  
ECON4005 Public Economics  
ECON4006 Labour Economics  
ECON4007 Industrial Economics  
ECON4008 Law and Economics  
ECON4012 Selected Topics in Economics  
ECON4013 Research Project on Social Sciences II  
ECON4014 Financial Economics

A student can take at most 3 courses (or at most 9 credits) from the following 9 no-prerequisite or internship required electives:

#### **List of No-pre-requisite or Internship Required Electives**

ECON3008 International Economic Law (no-prerequisite)  
ECON3009 Internship



ECON3014 Economy of Hong Kong, Macao and the Pearl River Delta (no-prerequisite)  
ECON3015 European Economies (no-prerequisite)  
ECON3017 Western Economic History (no-prerequisite)  
ECON3018 Chinese Social and Economic History (no-prerequisite)  
ECON4009 The Modern Macao Economy (no-prerequisite)  
ECON4010 The Chinese Economy (no-prerequisite)  
ECON4011 Economies of the Asia-Pacific Region (no-prerequisite)

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

- **Government and Public Administration with Specialization in Public Administration**

Year I	Credits
GEA3001 Understanding International Politics*	3
GESB1008 Understanding Government*	3
GPAD1000 Introduction to Political Science	3
GPAD1001 Introduction to Political Theory	3
Community and Peer Education Courses	2
Language and Skills – English Language Courses or Free Electives	6
Language and Skills – Chinese/Portuguese Language Course or Free Electives	3
Language and Skills – Information Technology Course	3
1 General Education Course	3
<b>Total Credits:</b>	<b>29</b>

Year II	Credits
GPAD2000 Public Sector Personnel Management	3
GPAD2001 Public Sector Organizational Behavior	3
GPAD2002 Comparative Politics	3
GPAD2003 Social Sciences Research Methods	3
Community and Peer Education Courses	1
Language and Skills – English Language Courses or Free Electives	3
2 General Education Courses	6
3 Required Electives in Public Administration*	9
<b>Total Credits:</b>	<b>31</b>

Year III	Credits
GPAD3000 Administrative Law I	3
GPAD3002 Public Finance	3
GPAD3003 Public Policy Analysis	3
2 General Education Courses	6
3 Required Electives in Public Administration*	9
2 Free Electives	6
<b>Total Credits:</b>	<b>30</b>

<b>Year IV</b>	<b>Credits</b>
GPAD4000 Constitutional Law	3
GPAD4001 Research Project	3
3 General Education Courses	9
2 Required Electives in Public Administration*	6
3 Free Electives	9
<b>Total Credits:</b>	<b>30</b>

	<b>Credits</b>
<b>Grand Total:</b>	<b>120</b>

**List of Required Electives in Public Administration**

GPAD2006	Public Sector Organizational Structure and Design
GPAD2007	Macroeconomic Policy of Development
GPAD2008	Government and Bureaucracy in Macao
GPAD2009	Politics of Hong Kong and Macao
GPAD2010	Politics of China
GPAD2012	Asian Politics
GPAD2015	An Introduction to Political Economy
GPAD3001	Administrative Law II
GPAD3007	Public Sector Strategic Planning
GPAD3008	Public Relations
GPAD3009	Statistics for Public Management
GPAD3010	European Union's Politics
GPAD3011	Chinese Foreign Policy
GPAD3018	Capitalism and Modernity
GPAD3021	Democracy and Democratization
GPAD3022	E-Government and E-Governance
GPAD3023	Game Theory Applications in Politics and Administration
GPAD3024	Governance Reform in Contemporary China
GPAD3025	Labor Politics
GPAD3026	Politics of the Tourism Economy
GPAD3027	Social Policy and Economic Development in Macao
GPAD3028	Internship
GPAD3029	Independent Studies on Political Science and Public Administration
GPAD3030	Public Choice
GPAD3031	Public Management in Asian States
GPAD4004	Administrative Accountability and Ethics
GPAD4005	Programme Evaluation and Performance Assessment
GPAD4006	Public Administration: Macao and Hong Kong
GPAD4007	Public Administration: China
GPAD4008	Selected Topics in Public Administration
GPAD4009	Research Project on Public Administration
GPAD4013	East Asian International Relations

Remarks:

\* Course can be only countered as Compulsory Major Course for student majoring in Government and Public Administration, it cannot fulfil GE requirement.

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

- **Government and Public Administration with Specialization in International and Public Affairs**

Year I	Credits
GEA3001 Understanding International Politics*	3
GESB1008 Understanding Government*	3
GPAD1000 Introduction to Political Science	3
GPAD1001 Introduction to Political Theory	3
Community and Peer Education Courses	2
Language and Skills – English Language Courses or Free Electives	6
Language and Skills – Chinese/Portuguese Language Course or Free Electives	3
Language and Skills – Information Technology Course	3
1 General Education Course	3
<b>Total Credits:</b>	<b>29</b>

Year II	Credits
GPAD2002 Comparative Politics	3
GPAD2003 Social Sciences Research Methods	3
GPAD2014 The Rise of Asia	3
Community and Peer Education Courses	1
Language and Skills – English Language Courses or Free Electives	3
2 General Education Courses	6
3 Required Electives in International and Public Affairs**	9
1 Free Elective	3
<b>Total Credits:</b>	<b>31</b>

Year III	Credits
GPAD3004 International Relations Theory	3
GPAD3005 International Organization and World Governance	3
2 General Education Courses	6
4 Required Electives in International and Public Affairs**	12
2 Free Electives	6
<b>Total Credits:</b>	<b>30</b>

Year IV		Credits
GEA4000	Global Politics and Wealth*	3
GPAD4002	International Security	3
GPAD4003	Graduation Project on International Relations	3
3 General Education Courses		9
2 Required Electives in International and Public Affairs**		6
2 Free Electives		6
<b>Total Credits:</b>		<b>30</b>
		<b>Credits</b>
<b>Grand Total:</b>		<b>120</b>

**List of Required Electives in International and Public Affairs**

GPAD2004	History of Contemporary International Relations
GPAD2005	International Law
GPAD2009	Politics of Hong Kong and Macao
GPAD2010	Politics of China
GPAD2011	American Politics
GPAD2012	Asian Politics
GPAD2013	Political and Sustainable Development
GPAD2015	An Introduction to Political Economy
GPAD3006	Foreign Policy Decision-making
GPAD3009	Statistics for Public Management
GPAD3010	European Union's Politics
GPAD3011	Chinese Foreign Policy
GPAD3012	American Foreign Policy
GPAD3013	Sino-American Relations
GPAD3014	China-European Relations
GPAD3015	Foreign Policy of the European Union
GPAD3016	China-East Asian Relations
GPAD3017	International Political Theory
GPAD3018	Capitalism and Modernity
GPAD3019	Conflict and Cooperation in International Relations
GPAD3020	Religion in International Relations
GPAD3023	Game Theory Applications in Politics and Administration
GPAD3025	Labor Politics
GPAD3028	Internship
GPAD3029	Independent Studies on Political Science and Public Administration
GPAD3031	Public Management in Asian States
GPAD4010	International Public Policy
GPAD4011	International Environmental and Energy Policy
GPAD4012	International Human Rights Policy
GPAD4013	East Asian International Relations
GPAD4014	Research Project on International Relations
GPAD4015	Selected Topics in International Relations I
GPAD4016	Selected Topics in International Relations II
GPAD4017	Selected Topics in International Relations III
GPAD4018	Selected Topics in International Relations IV

\* Course can be only counted as Compulsory Major Course for student majoring in Government and Public Administration, it cannot fulfil GE requirement.

\*\* Course can be only counted as Required Elective Course for student majoring in Government and Public Administration with specialization in International and Public Affairs, it cannot fulfil GE requirement.

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

### • Psychology

Year I		Credits
PSYC1000^	General Psychology	3
PSYC1001	Psychology Statistics I	3
Language and Skills – English Language Courses or Free Electives		6
Language and Skills – Chinese/Portuguese Language Course or Free Electives		3
Language and Skills – Information Technology Course		3
Community and Peer Education Courses		2
3 General Education Courses <sup>2</sup>		9
<b>Total Credits:</b>		<b>29</b>

Year II		Credits
PSYC2000^	Developmental Psychology	3
PSYC2001^	Sensation and Perception	3
PSYC2002^	Human Learning and Cognition	3
PSYC2003	Social Psychology	3
PSYC2004^	Personality Psychology	3
PSYC2005	Psychology Statistics II	3
Language and Skills – English Language Course or Free Electives		3
Community and Peer Education Courses		1
3 General Education Courses <sup>2</sup>		9
<b>Total Credits:</b>		<b>31</b>

Year III		Credits
PSYC3000^	Abnormal Psychology	3
PSYC3002	Research Methods	3
PSYC3004^	Physiological Psychology	3
PSYC3021	Experimental Psychology	3
2 General Education Courses <sup>2</sup>		6
2 Required Electives in Psychology		6
2 Free Electives		6
<b>Total Credits:</b>		<b>30</b>

Year IV		Credits
PSYC3022 <sup>A</sup>	Psychology of Testing	3
PSYC4005	Clinical Psychology	3
6 Required Electives in Psychology		18
2 Free Electives		6
<b>Total Credits:</b>		<b>30</b>

		Credits
<b>Grand Total:</b>		<b>120</b>

### **List of Required Electives in Psychology**

Out of the 8 Required Electives, students are required to choose 1 course from the list A and 7 courses from the list B:

**Required Elective List A** – students are required to **choose 1 course** from the following list:

- PSYC4000 Graduation Project
- PSYC4002 Research Project II (Pre-requisite: PSYC4001 Research Project I)

**Required Elective List B** – students are required to **choose 7 courses** from the following list:

- PSYC2006 Close Relationships
- PSYC3001 Cultural Psychology
- PSYC3003 Psychology of Addiction
- PSYC3006 Cognitive Neuroscience
- PSYC3008 Psychology of Leadership
- PSYC3009 Consumer Psychology
- PSYC3013 Evolution, Human Nature and Behaviour
- PSYC3014 Health and Behaviour
- PSYC3016 Psychology of Learning and Motivation
- PSYC3017 Selected Topics I
- PSYC3018 Selected Topics II
- PSYC3020 Cognitive Development
- PSYC4001 Research Project I
- PSYC4003 Field Experience I
- PSYC4004 Field Experience II
- PSYC4006 Organizational Psychology
- PSYC4007 Global Mental Health
- PSYC4008 Intelligence and Creativity
- PSYC4012 Social Cognition
- PSYC4015 Great Ideas in Psychology
- PSYC4017 Advances in Psychological Science
- PSYC4018 Issues in Applied Psychology

### **Remarks:**

#### **<sup>1</sup>Languages and Skills:**

Students who test out of some or all of the Languages and Skills course(s) are required to make up the credits by taking additional Free Elective(s).

## <sup>2</sup>General Education:

Students are required to complete the following 4 compulsory GE courses and also complete the remaining 4 GE courses from the four GE areas (Global Awareness, Literature and Humanities, Science and Technology, Society and Behaviour);

1. GEGA1000 Macao and Chinese Civilization
2. GELH1000 Chinese Language and Culture
3. GEST1002 Quantitative Reasoning for Social Sciences
4. Ethics, Values, Law and Society
  - GESB1001 – Applied Ethics (offered by FBA –1 credit)
  - GESB1002 – Foundations of Moral Values (offered by FAH –1 credit)
  - GESB1003 – Law and Society (offered by FLL –1 credit)

<sup>^</sup> The 8 fundamental psychology courses from the psychological therapist registration requirements) for 《治療師(心理治療)資格認定基準》(effective date from 20/08/2021) announced by the Health Bureau, Macao SAR:

《治療師(心理治療)資格認定基準》第二項第1至12門心理學相關科目		UM Courses			
		Course Code	Course Title in English	Course Title in Chinese	Arrangement
1	普通心理學	PSYC1000	General Psychology	普通心理學	1 <sup>st</sup> Academic Year
2	心理測驗學	PSYC3022	Psychology of Testing	心理測驗學	4 <sup>th</sup> Academic Year
3	性格心理學	PSYC2004	Personality Psychology	性格心理學	2 <sup>nd</sup> Academic Year
4	發展心理學	PSYC2000	Developmental Psychology	發展心理學	2 <sup>nd</sup> Academic Year
5	生理心理學	PSYC3004	Physiological Psychology	生理心理學	3 <sup>rd</sup> Academic Year
6	知覺心理學	PSYC2001	Sensation and Perception	知覺心理學	2 <sup>nd</sup> Academic Year
7	人類學習與認知	PSYC2002	Human Learning and Cognition	人類學習與認知	2 <sup>nd</sup> Academic Year
8	變態心理學	PSYC3000	Abnormal Psychology	變態心理學	3 <sup>rd</sup> Academic Year



## FACULTY OF SOCIAL SCIENCES

# Bachelor's Degree Programmes

## Bachelor of Social Sciences

- Sociology**

Year I	Credits
SOCY1000 Introduction to Sociology	3
SOCY1003 Social Research Methods	3
1 Required Electives in Sociology	3
3 General Education Courses	9
Community and Peer Education Courses	2
Languages and Skills/Free Electives	12
<b>Total Credits:</b>	<b>32</b>

Year II	Credits
SOCY2000 Sociological Theory	3
SOCY2002 Political Sociology	3
SOCY2010 Introduction to Criminology	3
3 Required Electives in Sociology	9
2 General Education Courses	6
Community and Peer Education Courses	1
Languages and Skills/Free Electives	3
2 Free Electives	6
<b>Total Credits:</b>	<b>34</b>

Year III	Credits
SOCY3000 Gender and Society	3
4 Required Electives in Sociology	12
2 General Education Courses	6
3 Free Electives	9
<b>Total Credits:</b>	<b>30</b>

Year IV	Credits
SOCY4000 Research Project <b>OR</b> SOCY3002 Internship	3
3 Required Electives in Sociology	9
1 General Education Course	3
3 Free Electives	9
<b>Total Credits:</b>	<b>24</b>

	Credits
<b>Grand Total:</b>	<b>120</b>

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**List A: Project-based/Seminar courses (students are required to complete 1 of the following courses)**

- SOCY3002 Internship
- SOCY4000 Research Project

**List B: Lecture-based and Project-based/Seminar courses (students are required to complete 11 of the following courses)**

**Lecture-based courses**

- SOCY1001 Reading Sociology
- SOCY1002 Introduction to Anthropology
- SOCY2001 Social Statistics
- SOCY2003 Social Stratification and Inequality
- SOCY2005 Qualitative Social Research Methods
- SOCY2006 Sociology of Deviance
- SOCY2007 Sociology of Gaming
- SOCY2008 Environment and Society
- SOCY2009 Theory in Anthropology
- SOCY2011 Sociology of Addictive Behaviour
- SOCY2014 Chinese Society
- SOCY2015 Policing
- SOCY2016 Cultural Sociology
- SOCY3001 Survey Methods and Sampling
- SOCY3004 Religion and Society
- SOCY3005 Sociology of Education
- SOCY3006 Social Movements and Collective Behaviour
- SOCY3007 Fundamentals of Urban Studies
- SOCY3012 Health and Society
- SOCY3013 White-Collar Crime
- SOCY3015 Crime and Criminal Justice in China
- SOCY4004 Sociology of Consumption and Leisure

**Project-based/Seminar courses**

- SOCY4001 Independent Study in Sociology
- SOCY4002 Selected Topics in Sociology
- SOCY4003 Selected Topics in Anthropology

## Course Description

### **COMM1000 INTERPERSONAL COMMUNICATION**

This is an introductory course in the theory and practice of communications, focusing on interpersonal and small group communication. Topics include face-to-face communication, social roles, relationship development, non-verbal as well as verbal communication, perception, leadership, and problem-solving.

Pre-requisite: None

### **COMM1001 NEW MEDIA**

This course introduces students to key aspects of new media and networked applications. Topics include new media landscape, multimedia content ad applications, and cross-media technologies.

Pre-requisite: None

### **COMM1002 INTRODUCTION TO NEWS AND JOURNALISM**

This course is a foundation of journalism. It explores the significance of news and role of journalism in society by focusing on deciphering news in various media, such as television, radio, newspapers, magazines and the Internet, in relation to current affairs. It also examines journalism as a profession with specific values and functions. This course introduces basics of news writing and content analysis, and seeks to stimulate students' interest in the profession.

Pre-requisite: None

### **COMM2001 INTRODUCTION TO PUBLIC RELATIONS**

The course gives a general survey of the public relations discipline. It emphasizes the discipline's professional foundation in law and ethics, and focuses on fundamental theories of public relations management. It teaches strategic planning and execution of public relations campaigns, including campaign evaluation. It encourages hands-on experiences, develops research skills, and prepares students for advanced public relations courses.

Pre-requisite: None

### **COMM2002 MEDIA AND SOCIETY**

This introductory course concentrates on the complex relationships between media and society. Topics include uses and functions of mass communication, the social impact of mass media on knowledge, attitudes and behavior, mass media audiences, and feedback systems. The history, structure, development, and technological trends of various media formats and platforms are explored. Students will have an overview of advertising and public relations industries, international and comparative mass media systems, as well as media professions.

Pre-requisite: None

### **COMM2003 FUNDAMENTALS OF VISUAL CULTURE**

This interdisciplinary course integrates theory and practice, and focuses on the study and analysis of visual images. It applies critical thinking to prints, photographs and advertisements, fine arts, fashion and architecture, as well as film, television and new media. It introduces theories of representation and helps develop critical and analytical skills for application in media production and practices.

Pre-requisite: None

### **COMM2004 INTRODUCTION TO CULTURE AND COMMUNICATION**

This course introduces students to analytical methods informed by critical communication and cultural studies, and exposes them to major research approaches in the field. It primarily draws on but not exclusive to Marxism, Critical Theory, British Cultural Studies and other intellectual traditions, theoretical frameworks, and analytical concerns. It teaches students to analyze a variety of communicative and cultural practices in Macao and international media contexts.

Pre-requisite: None

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### **COMM2005 ADVERTISING**

Advertising has creative, business and research aspects. This course introduces students to the structure of advertising, as well as its history, problems, and challenges. It provides an overview of advertising industries and practices. It prepares students for advanced advertising courses in creative development, media planning, and media management.

Pre-requisite: None

### **COMM2006 VIDEO PRODUCTION**

This course integrates theory with practice, and prepares students for advanced video production. It teaches students how to operate the video camera and introduces them to digital editing software and other fundamentals of video production: story board, composition, lighting, sound, and editing, as well as histories and genres of moving images. It uses various teaching formats: lectures, discussions, hands-on exercises, workshops, and screenings. Students will be required to complete small video projects. Completed works may be exhibited publicly.

Pre-requisite: None

### **COMM2007 PHOTOGRAPHY**

In this course students will learn photography through hands-on instruction and exercises. Students will learn to think critically about visual culture, subject/object relationships, and theories of representation. Such genres as photojournalism, picture editorial, and portrait photography may be introduced.

Pre-requisite: None

### **COMM2009 中國新聞傳播史 CHINESE MEDIA HISTORY**

本課程主要介紹中國傳播媒介、傳媒科技和傳播意識形態的發展歷程。過去和現今傳媒的蛻變。通過不同時代的重要事件，探討傳媒科技的革新、意識形態的改變和傳媒與社會的影響。

This course gives an introduction to how the media, media technology and media ideology have been transformed in Chinese history. It will cover changes from the ancient time to the modern period. Issues including technology innovation and ideology changes, media and social changes will be discussed in relation to historical events or milestone incidents.

先修科目：沒有

### **COMM2010 INTERCULTURAL COMMUNICATION**

This is an introductory course to the key theories and the processes of intercultural communication. Students will develop an appreciation and understanding of the cultures other than their own, and be equipped with the skills necessary to become an effective communicator in intercultural and multicultural contexts.

Pre-requisite: None

### **COMM2011 ENGLISH NEWS WRITING**

This course aims at teaching students the core skills of professional journalists. Through the combined module of theoretical inquiry and practical training, the course addresses such issues as the understanding of news values, the cultivation of journalistic observation, the development of interview skills, the structure and organization of news story genres, as well as rules of attribution and quotation. Field trips are part of the course offering.

Pre-requisite: None

### **COMM2012 中文新聞寫作 CHINESE NEWS WRITING**

本課程主要通過課堂講授與練習，介紹中文新聞採訪與寫作的基本方法。側重介紹中文新聞採訪與報道的基礎知識、發現和判別新聞的方法、採訪的基本技巧、幾種主要新聞報道文體的特點，消息的定義、種類、寫作特點、消息的基本格式與構成、新聞主題的選擇與深化、新聞報道材料的鑒別與選擇、新聞語言的特徵等。

This course provides integrated training in basic journalistic skills for news writing in Chinese. It familiarizes students with key procedures in news gathering, interviews and news writing through lectures and workshops. It specifically focuses on news definitions, story formats,

writing styles, theme development, in-depth reports, linguistic characteristics, and other core news writing concerns.

先修科目：沒有

### **COMM2013 ANIMATION I**

This course is the first part of the animation course series. The production of digital animation is emphasized. The basic concepts, principles, and essential techniques of hand-drawn, two-dimensional, and three-dimensional animation, as well as today's trends in the field, develop students' understandings about the fundamentals in storytelling, scripting, and delivery of animated imagery for different platforms.

Pre-requisite: None

### **COMM3001 COMMUNICATION THEORY**

This is an introductory course to major theories of human communication. It is designed to give students a critical understanding of key themes in the field and demonstrate how theories illuminate the nature of human interaction. Specifically, the course examines origins, evolutions, milestones, methods and findings of communication perspectives. It studies intellectual, institutional and socio-political factors that inform the development of the communication discipline.

Pre-requisite: None

### **COMM3002 QUANTITATIVE METHODS**

It is designed to accomplish three closely related goals: (1) to introduce students to the basic logic, process and techniques in quantitative research; (2) to provide students with a critical framework to examine communication problems and evaluate communication research; and (3) to offer students opportunities to gain hands-on experiences in empirical projects. They will learn to apply statistic software such as SPSS for both descriptive and explanative analysis.

Pre-requisite: None

### **COMM3003 QUALITATIVE RESEARCH METHODS**

This course acquaints students with qualitative research methods in communication studies. It addresses philosophical and conceptual issues, and engages students in experimental activities in conceptualizing and carrying out a qualitative project including data collection, analysis and report presentation.

Pre-requisite: None

### **COMM3004 DIGITAL GRAPHICS**

This course introduces students to the possibilities of digital graphics and provides them an education in the history of graphic design. Students will learn practical techniques in a variety of software; and they will concurrently be introduced to the history of graphic design and aesthetic theory. Emphasis will be placed on creatively experimenting with digital means of production.

Pre-requisite: None

### **COMM3005 MULTIMEDIA DESIGN**

This course teaches students graphic design software as well as related digital technologies. Students will examine the history of various media, from online applications to video games, with an eye toward aesthetics, critical thinking, and creativity. Students will study both the production and reception of contemporary multimedia as well as learning to produce it themselves.

Pre-requisite: None

### **COMM3006 ADVERTISING PLANNING AND STRATEGY**

This course acquaints students with advanced training on the development and execution of advertising projects through creative and motivating communication, strategic planning and effective assessment. The emphasis is on providing students opportunities to engage in a real-

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life advertising context, and to connect theories with practice in developing creative and effective strategies in advertising.

Pre-requisite: COMM2005

### **COMM3007 PUBLIC RELATIONS PLANNING AND STRATEGY**

This course teaches advanced public relations, dealing with theories of management function and public relations practices. It covers media relations, issues management, and organization-public relationships. It investigates representative public relations cases, with a particular focus on explaining and evaluating theories, strategies, and tactics.

Pre-requisite: COMM2001

### **COMM3008 PUBLIC OPINION**

This course covers the fundamentals of public opinion in democratic environments and evaluates the role, nature and dimensions of public opinion in democratic liberalism. It investigates the role of mass communication in organizing, implementing, and controlling public opinion. By introducing methods of polling and survey research, it highlights the complicated issues related to media, society and citizenry.

Pre-requisite: None

### **COMM3009 PERSUASION: THEORY AND PRACTICE**

This course considers the ethical aspects of persuasion from the perspective of the humanities, business, and social sciences. It challenges students to think critically about persuasive communication. Comparative approaches from Asian and Western perspectives will be deployed for studying various modes, styles and genres of persuasion.

Pre-requisite: None

### **COMM3010 高級中文新聞寫作與採訪**

#### **ADVANCED NEWS WRITING AND REPORTING IN CHINESE**

本課程主要通過課堂講授與練習，介紹新聞記者的獨特思維方式與獨家新聞報道、深度新聞報道、通訊與特寫、各類專題新聞報道的採寫技巧，以及不同新聞媒介對採寫的不同要求等內容。

This advanced level course enhances students' journalistic abilities. It emphasizes investigative reporting and in-depth analysis of news events. Students will develop strong skills in interview techniques, deep reporting, background research and writing across genres.

先修科目：沒有

### **COMM3011 ADVANCED NEWS WRITING & REPORTING IN ENGLISH**

This course further expands the skills students acquired in News Writing and Reporting with an emphasis on beat reporting, special assignments and feature writing. It focuses on critical evaluation of evidence, development of investigative skills and improvement in computer-assisted reporting techniques. Students will work on multi-source news stories, features and opinion articles which revolve around public issues of timely significance in society.

Pre-requisite: None

### **COMM3012 中文編輯學 CHINESE NEWS EDITING**

本課程主要通過課堂講授與練習，介紹編輯學的基本理論與基本知識，側重報刊新聞編輯，略述書刊編輯與影視編輯等基本知識。課程內容包括：編輯演變與類型，編輯的職責與修養，文稿的取捨、修改與配置，新聞標題的製作，報刊新聞版面的編輯技巧，報道或書稿選題的策劃與組織，圖片編輯，專刊和副刊編輯，廣播新聞編輯與電視新聞編輯。

This course teaches the fundamentals of desktop publishing in Chinese. Students will learn editing principles, theories, aesthetics and skills for creating and making various kinds of publications under diverse production contexts. Key topics include: the history of news editing, editorial ethics and roles, news and images editing, headline making and so on.

先修科目：沒有

**COMM3013 ENGLISH NEWS EDITING**

This course introduces students to the fundamentals of news editing and desktop publishing. Addressing the role and ethics of editors in media organizations, the course comprises practical training of basic copy-editing skills, such as proofreading, editing, making headlines. Other key topics include principles of newspaper and magazine layout practices, particularly in a desktop publishing environment that uses multiple graphics software applications.

Pre-requisite: None

**COMM3015 ADVANCED VIDEO PRODUCTION**

This course teaches students advanced video production skills, including two or more camera setup, interview techniques, special effects, as well as visual and narrative theories. The format of instruction includes lectures, discussions, presentations, exercises and screenings; it strongly encourages active participation and interaction. Critical and independent thinking is emphasized. Students are required to complete small video projects. Completed works will be exhibited publicly.

Pre-requisite: COMM2006

**COMM3016 DOCUMENTARY**

The course provides a theoretical and practical discussion of the history, aesthetics, genres, and practice of documentary in contemporary society. By highlighting the director/producers' role in the process of production, students are encouraged to examine various visual elements of documentary and develop skills by engaging in documentary production.

Pre-requisite: None

**COMM3017 SCRIPTWRITING**

Scriptwriting is an opportunity for students to study storytelling and narrative traditions. Students will read original works of fiction and scripts for television, film, and new media content. Students will also write original scripts that will be developed throughout the course via collaborative writing exercises and in class peer review.

Pre-requisite: None

**COMM3018 BROADCAST NEWS WRITING IN CHINESE**

This course provides students with a critical understanding of television. It offers a range of themes: TV industry and institutions; TV audiences; news, documentary, entertainment programmes, drama and other TV genres. The intricate relationship between production and reception will be highlighted and critically examined. Students are expected to develop a historical and systematic overview of the function and impact of television, from the tube to online formats.

Pre-requisite: None

**COMM3019 GENDER, MEDIA AND DIVERSITY**

As a venue for civil discourse, media should fairly and accurately represent the various groups that comprise the society. However, the economics of media often contribute to underrepresentation or stereotypical profiling of minority groups. This course takes a critical approach to examining the causes and manifestation of such biases in the media, with emphases on such issues as class, race, gender, ethnicity, age, sexual orientation, and political viewpoints.

Pre-requisite: None

**COMM3020 CRISIS MANAGEMENT**

This course covers the basic elements of crisis communication and the procedures for creating and implementing communication plans when crisis occurs. It examines different types of crises in commercial corporations and non-profit organizations. It explores pitfalls of crisis communications, teaches crisis prevention and resolution, and addresses ethical issues.

Pre-requisite: None

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### **COMM3021 BROADCAST JOURNALISM**

The course is designed to prepare students for responsible roles in the broadcast and television news production. It teaches position chart and trade terminology. It gives emphasis to broadcast news writing and shooting. Students learn lens operation, video recording and studio control, and postproduction editing skills. Lessons in lighting, sound and setting as well as visual and special effects will be held. Students will participate in anchor and presenter exercises that comprise the following genres: interview, discussion panel, weather reporting, special programme, year-end review, documentary and live news programme.

Pre-requisite: None

### **COMM3022 NEW MEDIA JOURNALISM**

Multimedia is an interactive composite of text, graphic, sound, video and animation elements. This advanced level course adopts a “multiple media” approach to journalism. Students will learn to present news verbally, visually and above all, interactively, using new media formats.

Pre-requisite: COMM1001

### **COMM3023 POLITICAL COMMUNICATION**

The course investigates the processes political candidates and the mass media employ to generate and disseminate political narratives. It explores how political communication and mass media shape the political process and political outcomes: do they contribute – positively or negatively – to the quality of democracy, or do they not make a difference at all?

Pre-requisite: None

### **COMM3024 ANIMATION II**

This course, the second part of the animation course series, walks students through the various stages of an animation project, which include planning, implementation, and management. Hands-on practice integrates students' knowledge of 2D and 3D digital animation into the realization of original narratives. Such storytelling is studied across various platforms from home entertainment, educational, museums, electronic media, advertising billboards, interactive channels, or apps for mobile devices.

Pre-requisite: COMM2013

### **COMM3025 CINEMA STUDIES**

The course offers students a general knowledge about film history, genre and practices. It teaches analytical concepts for understanding film industry and cinema texts as cultural, artistic, industrial and political phenomena. It stimulates students' interest for film studies. Topics may comprise national cinemas, Third cinemas and Chinese language cinemas, including representations of gender and sexualities.

Pre-requisite: None

### **COMM3026 CULTURAL INDUSTRIES AND POLICIES**

This course examines the social, political, economic, and institutional factors affecting the development and regulation of the arts and the media in the contemporary world. With reference to both Macao and international contexts, the course will discuss such topics as heritage, tourism, museums, leisure, sports, architecture, urban development, and the cultural industries, and their consequences for identity, community, and citizenship.

Pre-requisite: None

### **COMM3027 MACAO MEDIA AND CULTURE**

This course introduces student to the historical development of mass media of communication in Macao since the city's establishment more than 450 years ago. It explores issues such as the role of the media and their impact on Macao culture and society, as well as the formation and representation of Macao's unique culture and identity.

Pre-requisite: None



### **COMM3028 POPULAR CULTURE AND COMMUNICATION**

The course aims to engage with social, political, economic and historic meanings of popular culture. It examines a wide range of forms, styles, and practices through which popular culture is produced, performed and consumed. Popular culture genres covered in the course may include television, music, film, fashion, video games, comics, and subcultures. Students are expected to assess the significance of popular culture through their everyday life experience. Pre-requisite: None

### **COMM4000 ORGANIZATIONAL COMMUNICATION**

This course focuses on theories and processes related to organizational communication. Students will acquire skills for assessing communication problems, designing communication systems, and improving communication quality. Other key topics include managerial communication, teamwork and leadership, and conflict resolution. Pre-requisite: None

### **COMM4001 GLOBAL MEDIA STUDIES**

This course provides students with a platform to consider their role in the future of global communication. It analyzes media communication across a wide variety of levels, from personal to local, corporate, and international. The theoretical and methodological approaches are drawn from an interdisciplinary tradition within the arts, humanities and social sciences that focuses on understanding the role of culture, gender, and power in public communication. With a focus on globalization, topics may include specific media industries and markets, and the use of media technologies by both corporations and non-profit organizations. Pre-requisite: None

### **COMM4002 MEDIA LAW AND ETHICS**

This course covers ethical principles for media practices, including journalism. It examines local and international laws governing media coverage and freedom of expression. Key topics include national security, defamation, privacy, and obscenity, with a particular focus on definitional and implementation issues with respect to laws, principles and ethics. Pre-requisite: None

### **COMM4003 FIELD INTERNSHIP**

In cooperation with local corporations, agencies, and organizations, final year Communication Major students are assigned short-term work placements that allow them to apply communication knowledge and skills to real-life contexts, including problem solving. Interns will attend an internship class once a week. To pass the course, they must obtain satisfactory performance reports from both the faculty supervisor and internship site director. Pre-requisite: None

### **COMM4004 GRADUATION PROJECT**

This capstone course provides an opportunity for final year Communication Major students to carry out an original study on topics pertinent to communication studies. The final outcome is an academic or semi-academic thesis. Under the supervision of the thesis instructors, students will independently develop the research topic, review relevant literature, specify research methodology, gather data, analyze data and report findings. The undergraduate thesis may be an individual effort or completed as a small group project. Qualitative, quantitative, or combined research methods may be used. Pre-requisite: None

### **COMM4005 WORKSHOP: EVENT PLANNING AND IMPLEMENTATION**

Integrating theory and practice, this capstone course is designed for final year Communication Major students to design and implement a campaign event. It offers them hands-on experiences that include fund-raising, budget control, event planning and team-working. Finally it provides ample opportunities for applying academic learning to real-life contexts. Pre-requisite: None

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**COMM4006 WORKSHOP: CHINESE PUBLICATION**

Integrating theory and practice, this capstone course is designed for final year Communication Major students to produce a Chinese publication, that includes photographic images and graphic material. It offers them hands-on experience, and puts an emphasis on connecting the magazine with real-life contexts. It sharpens their writing, editing and desktop publishing skills, and finally enhances journalistic professionalism.

Pre-requisite: None

**COMM4007 WORKSHOP: VIDEO I**

Integrating theory and practice, this capstone course is designed for final year Communication Major students to produce video projects that are of high production quality. It uses the mentor-student approach and gives students ample opportunities to apply their video production skills. Students may complete their video projects in one or two semesters. Completed work will be exhibited publicly.

Pre-requisite: None

**COMM4008 WORKSHOP: VIDEO II**

This capstone course extends from Video I. It is mainly for students who have embarked on video projects that require two semesters to complete. Video II projects are expected to achieve professional or close-to-professional standards. Completed work will be exhibited publicly.

Pre-requisite: None

**COMM4009 WORKSHOP: ENGLISH PUBLICATION**

Integrating theory and practice, this capstone course is designed for final year Communication Major students to produce an English publication. It enables them to acquire more hands-on experiences and further enrich academic knowledge in the area of journalistic publication, from news gathering, news and feature writing, photo journalism to editing, page layout, and website design and production.

Pre-requisite: None

**COMM4010 INTEGRATED COMMUNICATION CAMPAIGNS**

This advanced level campaign course absorbs the integrated approach to advertising and public relations. The instructor will work closely with students to develop campaign projects for the private and public sectors. It encourages students to hold creative campaigns, participate in college-level competitions and build a communication campaigns portfolio. It helps students use both conventional and unconventional methods to reach their targeted audiences. Campaigns designing and implementing with consideration of real-life contexts will be emphasized.

Pre-requisites: COMM2001

**COMM4011 MEDIA MANAGEMENT**

This course combines business administration and media production. It focuses on the technical, artistic and entrepreneurial aspects of media industries. Students will learn different aspects of managing print media, electronic media and the integrated new media.

Pre-requisite: None

**COMM4012 SPECIAL TOPICS IN PUBLIC COMMUNICATION**

This course offers special topics in Public Communication that includes in-depth studies of theoretical or practical issues in the public relations industry or public communication field. Topics may vary year to year.

Pre-requisite: None

**COMM4013 WRITING FOR PUBLIC RELATIONS AND ADVERTISING**

This is a writing-intensive course. Students will examine the intricate between organizations, publics, and the media. They will prepare, compose and write public relations/promotional messages for different media platforms including news releases, copy for company publications,

direct mail, and Web sites.

Pre-requisite: None

### **COMM4015 SPECIAL TOPICS IN CREATIVE MEDIA**

This course offers special topics in Creative Media at the advanced level that range from creative arts to creative industries. Topics may vary from year to year.

Pre-requisite: None

### **COMM7000 VISUAL COMMUNICATION HISTORY SEMINAR**

An in-depth understanding of the development of visual communication throughout history and in contemporary societies is fundamental for visual communication designers because it contextualizes his/her creative practice in historical terms. This course provides students the framework for visual communication history and to research on and engage with the contemporary visual communication world through reading, research, discussion, and writing.

Pre-requisite: None

### **COMM7001 VISUAL COMMUNICATION THEORY**

This course aims to investigate visual communication theory, aesthetics, and philosophy related to the formal and perceptual aspects of art, design and creative media. It sheds light on how art and design communicate and what art and design express through different styles, genres and media. The goal is for students to develop a holistic understanding of visual communication and art making, which serves as fundamental training for artists and designers and visual communication researchers.

Pre-requisite: None

### **COMM7003 VISUAL COMMUNICATION: PRACTICE AND CRITIQUE**

Visual Communication: Practice and Critique is a graduate seminar designed to help students develop his/her own body of visual communication work through studio practice, research, and critical analysis of the works as they progress. Students are encouraged to pursue a focused personal vision and creative activities through a combination of studio practice and group critique of the students' works as well as their artist statement and/or design concept.

Pre-requisite: None

### **COMM7004 RESEARCH AND CREATIVE ACTIVITIES**

Research and Creative Activities is a graduate course designed to help students develop his/her own body of visual communication work through studio practice and research in art, design, and creative media. Studio component and instruction are tailored to the student's individual investigations and research direction. The ultimate goal is to help students develop his/her own visually coherent and conceptually unified body of visual communication work.

Pre-requisite: None

### **COMM7098 PROJECT REPORT**

Project Report consist of two elements: 1) a formal presentation of a visually coherent and conceptually unified body of work in arts, design, and/or creative media in the forms of solo and/or group exhibitions and/or performances; and 2) a written report that focuses on the artist statement, design concept statement, and the theoretical analysis of his/her own thesis project.

Pre-requisite: None

### **COMM7701 THEORIES OF COMMUNICATION**

This course is designed to introduce the basic concepts and logic of communication theories with a specific emphasis on linking theoretical concepts to applied communication practices and issues. It serves three inter-related objectives. First, it aims at providing the students critical perspectives of communication problems. Second, it attempts to draw connections between theoretical concepts and practices in various applied areas, including news and entertainment production, advertising, public relations, and public information. Third, it prepares students to approach other courses in the programme and their final graduation project.

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Pre-requisite: None

### **COMM7702 RESEARCH METHODS OF COMMUNICATION**

Introduction to applied media research, research criticism, data interpretation, and fundamentals of audience analysis. Topics include: surveys, content analysis, experimental test of programmes, field research, and formative evaluation.

Pre-requisite: None

### **COMM7703 COMMUNICATION PATTERNS AND CULTURE IN GREATER CHINA**

This course focuses on the history of Chinese Communication developments, special features of Chinese communication structure, trends and issues of Chinese media, traditional and modern. Both behavioral and historical approaches will be utilized in such analysis. Emphasis is on contemporary China.

Pre-requisite: None

### **COMM7704 INTERNATIONAL AND INTERCULTURAL COMMUNICATION**

This course examines contemporary issues in international and intercultural communication and the driving political, sociological, cultural and economic forces behind the gathering and disseminating of news, data and entertainment content through various channels in the world, with an emphasis on communication systems. From an interdisciplinary point of view, it covers the basic theoretical concepts about intercultural communication and international relations, and deals with the impact of intercultural encounters on national economy, politics and culture.

Pre-requisite: None

### **COMM7705 PUBLIC OPINION**

The meaning, nature, and functions of public opinion within social and political contexts; measurement through polling; theories and research findings on the formation, dynamics and change of public opinion. Students conduct actual public opinion surveys and write reports.

Pre-requisite: None

### **COMM7706 NEW MEDIA AND COMMUNICATION STUDIES**

The popularity of the Internet and emerging interactive telecommunication services have made multimedia a topic of interest. This course is designed to take a serious look, from both academic and professional perspectives, at the foundations and principles behind development and production processes from inception (developing the concept) to completion (hands-on production, testing, and distribution) in this new entertainment and information medium.

Pre-requisite: None

### **COMM7707 SPECIAL TOPICS IN JOURNALISM AND DIGITAL MEDIA**

This course guides students to enrich their knowledge and skills for more in-depth news writing and reporting. Advanced techniques of news reporting, investigative reporting, and personality profiles will be covered including advanced skills in dealing with news sources, interviewing, library search, and computer assisted reporting (CAR). The course also places a significant emphasis on online news reporting and publishing, providing students with basic knowledge and skills of designing and managing news websites.

Pre-requisite: None

### **COMM7708 SPECIAL TOPICS ON ADVERTISING**

This course develops students' ability to understand and effectively conduct research projects in advertising, such as audience analysis, message/media research, and marketing surveys. It is designed to bring together the theories and methods of communication and social sciences to deal with practical problems in advertising. Emphasis will be on a synthesis of theoretical studies in communication and professional practice in advertising.

Pre-requisite: None

**COMM7709 SPECIAL TOPICS ON PUBLIC RELATIONS**

This course provides students with a comprehensive and in-depth understanding of all aspects of public relations, including public relations practices in business, education and government with an emphasis on public relations principles: identifying target publics, press relations, cost management and planning public relations programmes.

Pre-requisite: None

**COMM7711 COMMUNICATION AND SOCIAL CHANGE**

Analysis of the role of communication in cultural, economic, political and social change. Integration and synthesis of theories concerning communication and change. Case studies will be examined.

Pre-requisite: None

**COMM7712 MEDIA FUNCTION AND MANAGEMENT**

This course provides in-depth case studies of the functions of different mass media, and conducts field observations and practice in technical operations. In addition, this course will discuss and analyze media organization and management, process and characteristics of media decision making, personnel management and training, planning and production, and sales and distribution.

Pre-requisite: None

**COMM7714 PROFESSIONAL WRITING IN ENGLISH**

This course provides advanced training in English journalistic writing and editing, promotional writing and other types of professional writing skills.

Pre-requisite: None

**COMM7715 DIGITAL MEDIA**

In this course transdisciplinary approaches will be used to study digital media in everyday practices, that includes existing and emerging technologies. Students will create original content and gain practical skills in software and imaging technologies.

Pre-requisite: None

**COMM7716 SPECIAL TOPICS ON COMMUNICATION AND SOCIETY**

This course guides students to examine a range of theories and critical perspectives on communication and society. Covers a range of research contexts and outcomes. Content areas vary according to instructor and student interest.

Pre-requisite: None

**COMM7717 SPECIAL TOPICS ON COMMUNICATION AND CULTURE**

This course examines interactions between communication and culture as experienced in virtual, mediated and face-to-face contexts. Covers a range of perspectives and research outcomes. Content areas vary according to instructor and student interest.

Pre-requisite: None

**COMM7718 SPECIAL TOPICS ON COMMUNICATION RESEARCH**

This course provides in-depth training on a particular research method. Content areas vary according to instructor and student interest.

Pre-requisite: None

**COMM7719 CREATIVE AND CULTURAL INDUSTRIES: A MEDIA STUDIES APPROACH**

This course will draw from a variety of disciplines that focus on popular media production and reception. Particular attention will be directed toward creative and cultural industries in Macao and beyond.

Pre-requisite: None

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**COMM7721 ACADEMIC WRITING AND SCHOLARSHIP**

This master-level course aims to develop students' theoretical knowledge and practical skills required to undertake their research and writing. The course includes an introduction and discussion on academic scholarship and research writing in the field of communication, helping students identify their implicit theoretical hunches, articulate those ideas into a researchable question, and then relate this question to a certain theoretical framework to discover new knowledge in the relevant context. It is also designed to help students develop a solid proposal through practice, discussion, and mutual critique.

Pre-requisite: None

**COMM7998 PROJECT REPORT**

The Project Report should consist of an essay that addresses a topic that is of significance to the field of communication. It must be characterized by a comprehensive account of the topic and the issues being analyzed and evaluated; and demonstrate a familiarity with and an ability to utilize different methodologies and scholarship.

Pre-requisite: None

**COMM8000 ACADEMIC WRITING FOR VISUAL COMMUNICATION RESEARCH**

This course has two main areas of focus. Firstly, it concentrates on the techniques of writing associated with or required by the various disciplines within the wider field of visual communication: this will include writing for specific genres (dissertation writing, writing a journal article, writing a visual communication review, etc.). Secondly, it will deal with contextual issues, both general and specific to the field of visual communication, which inform academic writing. Through analysis and discussion of the formats and key issues of academic writing in visual communication, this doctoral-level seminar provides students the opportunities to practice writing publishable journal articles and essays.

Pre-requisite: None

**COMM8001 VISUAL COMMUNICATION THEORY AND RESEARCH METHODS**

This course aims to investigate visual communication theory, aesthetics, and philosophy related to the formal and perceptual aspects of visual communication. It sheds light on how visual elements communicate and what visual communication expresses through different styles, genres and media. The goal is for doctoral students to develop a holistic understanding of visual communication, which serves as fundamental training for visual communication researchers.

Pre-requisite: None

**COMM8854 ACADEMIC WRITING FOR COMMUNICATION RESEARCH**

This course has two main areas of focus. Firstly it will concentrate on the techniques of writing associated with or required by the various disciplines within the wider field of communication (including media studies and cultural studies): this will include writing for specific genres (thesis writing, writing a journal article, writing a literature review). Secondly it will deal with contextual issues, both general and specific to the field of communication, which inform academic writing: this will include editing, proofing, referencing and ethical issues and requirements.

Pre-requisite: None

**ECON1000 BASIC MICROECONOMICS**

An introduction to the principles of microeconomics. Topics discussed include fundamentals of the market system, determinants of consumer demand, output and pricing decisions of firms, the operations of competitive, monopolistically competitive, monopoly, and oligopoly product markets, labor and other factor markets, and the role of governments in economic activity.

Pre-requisite: None

**ECON1001 BASIC MACROECONOMICS**

An introductory course in macroeconomic principles. Topics discussed include determination of national income; national income accounting; unemployment and inflation; stabilization

instruments of fiscal and monetary policy; economic models developed by Classical and Keynesian economists and the monetarist school.

Pre-requisite: None

### **ECON1002 MATHEMATICS I**

The course is designed to prepare students to apply mathematical analysis to problems in economics. The course emphasizes the mathematics of differential calculus, including the concept of the derivative and its use in the analysis of functions. Concepts of matrices are also introduced. Illustrative applications to topics in social sciences are given throughout.

Pre-requisite: None

### **ECON1003 MATHEMATICS II**

A continuation of Mathematics I. The course discusses multivariable calculus and its application for solving optimization and analyzing comparative statics of economics. The course also introduces economic dynamic and integral calculus, including dynamics and integration, definite integrals, improper integrals, and their applications.

Pre-requisite: ECON1002

### **ECON2000 STATISTICS I**

Topics discussed include descriptive statistics; probability theory; probability distributions, and sampling distribution. The course is also an introduction to estimation and hypothesis testing. Students are required to use a software package, specifically Microsoft Excel.

Pre-requisite: None

### **ECON2001 STATISTICS II**

The course is a sequence following Statistics I. The course includes topics in estimations and hypothesis testing for multiple populations, simple linear regression, non-parametric analysis, and time-series analysis.

Pre-requisite: ECON2000

### **ECON2002 INTERMEDIATE MICROECONOMICS I**

The study of the behavior of individual participants in the economy. This intermediate-level course emphasizes optimal patterns of consumption and production, analysis of market equilibrium, and the structure of different types of product markets.

Pre-requisite: ECON1000

### **ECON2003 INTERMEDIATE MICROECONOMICS II**

A continuation of Intermediate Microeconomics I. The course analyzes different models of oligopolistic market and factor market equilibrium. Other topics discussed include welfare economics, general equilibrium analysis, externalities, public goods, intertemporal choice, uncertainty, imperfect information.

Pre-requisite: ECON2002

### **ECON2004 INTERMEDIATE MACROECONOMICS I**

An intermediate-level course studying the operations of the aggregate economy. Subjects covered include national income accounting, IS-LM model, aggregate demand and supply, fiscal policy, monetary policy, economic growth and the dynamic AD-AS model.

Pre-requisite: ECON1001

### **ECON2005 INTERMEDIATE MACROECONOMICS II**

A continuation of Intermediate Macroeconomics I, subjects covered include economic growth, microfoundation of consumption and investment functions, demand and supply of money, problems of inflation and unemployment, deficit and inflation, and open economy macroeconomics. The theoretical foundations for formulating and implementing effective macroeconomic policies are also studied.

Pre-requisite: ECON2004

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### **ECON3000    MANAGERIAL ECONOMICS**

This course discusses the application of economic principles and methodologies to the decision-making process of firms or organizations. Rules and principles are introduced that aim at facilitating the attainment of the desired economic goals of management. Economic theory and the analytical tools of decision science are integrated to examine how an organization can achieve its goals most efficiently.

Pre-requisite: ECON2002

### **ECON3001    MONEY AND BANKING**

This course provides an understanding of the economic role of money, focusing on discussion of different schools of thought relating to the significance of money and monetary variables.

Pre-requisite: ECON1001

### **ECON3002    ECONOMETRICS I**

Introduces elementary econometric techniques beginning with single- and multi-variable ordinary least squares regression models. Also discussed are generalized least squares methods, the problems of heteroskedasticity and autocorrelation, and the concept of multicollinearity.

Pre-requisites: ECON2000 and ECON2001

### **ECON3003    ECONOMETRICS II**

A continuation of Econometrics I. The course explores more advanced topics in single and multivariate regression analysis, making use of matrix algebra. Empirical studies of econometric relationships make use of econometric software packages, such as EViews, STATA and others.

Pre-requisite: ECON3002

### **ECON3004    MATHEMATICS FOR ECONOMICS**

Introduces mathematical tools and techniques used in the study of economics at an advanced level. Subjects discussed include static analysis, comparative statics, optimization methods, dynamic analysis, and mathematical programming.

Pre-requisites: ECON1002 and ECON1003

### **ECON3005    FORECASTING METHODS IN ECONOMICS**

Presents an overview of different economic forecasting methods, including judgmental, decomposition, exponential smoothing, seasonal ARIMA and econometric methods. Particular emphasis is laid on the use of forecasting methods in practical circumstances. Computer programmes such as Excel, EViews and STATA will be used.

Pre-requisites: ECON1002, ECON1003 and ECON2000

### **ECON3006    INTERNATIONAL TRADE**

A course combining a theoretical treatment of the basis for international trade, focused on comparative advantage, reciprocal demand, factor endowments, and other trade theories, with an examination of the economic effect of various trade policies including tariff and non-tariff trade barriers. The integration of economies through trade and the international movement of factors of production are also discussed. Applications of theoretical models for analyzing current affairs are discussed throughout.

Pre-requisites: ECON1000

### **ECON3007    INTERNATIONAL MONETARY ECONOMICS**

Topics covered in this course include the monetary approach to the balance of payments; different exchange rate regimes; international capital mobility; international monetary organizations; markets for foreign exchange, including the Eurocurrency markets; the automatic adjustment mechanism; interest-rate and purchasing-power parities; speculative activity in money markets; and the setting of international macroeconomic policy.

Pre-requisites: ECON1001



### **ECON3008 INTERNATIONAL ECONOMIC LAW**

Discusses the legal aspects arising from international economic relations. Topics covered include laws covering international trade, technology transfer, international investment, taxation, and the resolution of disputes.

Pre-requisite: None

### **ECON3009 INTERNSHIP**

This course intends to provide our students with the opportunities to apply their economics knowledge to solving real world problems when they receive internship training offered by local government departments, banks or other financial institutes. Through the internship opportunities, our students will acquire/enhance their social and practical skills that enable them to be better prepared for rapidly shifting needs from the Macao Society.

Pre-requisite: To enrol in this course, students need to have minimum cumulative GPA 2.0 and the approval of the course instructor

### **ECON3010 DEVELOPMENT ECONOMICS I**

Topics covered in this course include the concept of economic development, the measurement of levels of development, poverty and inequality, population, education and health, migration, agricultural and industrial development, the roles of the state and the market, financial and fiscal policies, foreign trade, and environmental issues in developing countries.

Pre-requisites: ECON1000 and ECON1001

### **ECON3011 DEVELOPMENT ECONOMICS II**

Extends the analysis in Development Economics I, with special treatment on development theories and growth models that are applied to the developing economies.

Pre-requisites: ECON1000 and ECON1001

### **ECON3012 INSTITUTIONAL ECONOMICS**

This course focuses on the comparative analysis of the economies of different countries. It develops a theoretical framework for comparing two polar types of economic system - capitalist and socialist - and examines the economies of the United States and the former Soviet Union as representative examples of these polar types. Other countries are studied to develop an appreciation of the broad range of economic systems found in the real world.

Pre-requisites: ECON1000

### **ECON3013 URBAN ECONOMICS**

Focuses on the application of economic principles to the understanding of the structure and functioning of urban areas. Topics discussed include the economic bases of urban growth; economic determinants of urban structure; economic aspects of locational choice; growth and decline in urban economies; and the use of economic principles in the analysis of urban problems.

Pre-requisite: ECON2002

### **ECON3014 ECONOMY OF HONG KONG, MACAO AND THE PEARL RIVER DELTA**

This course provides basic knowledge on the economies of Hong Kong, Macao and the Pearl River Delta region. It focuses on the development of these economic entities in the past 10 -20 years and how these economies interact with each other and integrate into a regional economic bloc.

Pre-requisite: None

### **ECON3015 EUROPEAN ECONOMIES**

This course surveys the ongoing process of economic integration in Europe and critically evaluates the performance from the early stage of integration to the current EMU. The increasing trade and economic relations between China and Europe and the role of Macao are also examined.

Pre-requisite: None

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### **ECON3016 HISTORY OF ECONOMIC THOUGHT**

An intensive survey of the development of economic thought. The course introduces the work of outstanding thinkers and theoreticians in economics through discussion of the varied traditions of thought that have developed in the discipline.

Pre-requisites: ECON2002 and ECON2004

### **ECON3017 WESTERN ECONOMIC HISTORY**

A course examining the development of basic economic institutions in Western society. Emphasis is placed on key problems of historical interpretation.

Pre-requisite: None

### **ECON3018 CHINESE SOCIAL AND ECONOMIC HISTORY**

This course examines the traditional Chinese society and economy and their transformation in modern times. Emphasis is placed on the nature of basic socioeconomic structures, social stratification and mobilization, and the interrelationship of the state economy with local society.

Pre-requisite: None

### **ECON3019 APPLIED ECONOMICS**

A course on the application of economic principles to private and public decision making. Topics discussed include pricing decisions and microeconomic forecasting carried out by firms, and the policy consequences of the measurement, forecasting and interpretation of aggregate economic variables carried out by governments.

Pre-requisites: ECON1000 and ECON1001

### **ECON3020 RESEARCH PROJECT ON SOCIAL SCIENCES I**

In this course final-year students in economics develop and carry out individual research projects under the supervision of an economics staff member.

Pre-requisite: None

### **ECON3020 RESEARCH PROJECT ON SOCIAL SCIENCES I**

In this course final-year students in economics develop and carry out individual research projects under the supervision of an economics staff member.

Pre-requisite: None

### **ECON4000 ADVANCED MICROECONOMICS**

This course is a rigorous treatment of microeconomic theory making extensive use of mathematical tools, including differential calculus and constrained optimization. Topics discussed include public choice, risky assets, game theory, welfare, law and economics.

Pre-requisite: ECON2002

### **ECON4001 GAME THEORY**

This course is designed to study static games as well as dynamic games, and in each case imperfect information is allowed. As such, the core solution concepts of Nash equilibrium and its variants will be covered. Selected economic applications of game theory, especially to the broadly defined economics of information, will also be discussed.

Pre-requisite: ECON2003

### **ECON4002 ECONOMICS OF INFORMATION**

Topics include asymmetric information, adverse selection, moral hazard, signaling, screening, mechanism design and contracting.

Pre-requisite: ECON2003

### **ECON4003 WELFARE ECONOMICS**

A course providing the theoretical knowledge necessary to understand the economics of public sector activity. Concepts discussed include Pareto optimality, public goods, externalities, public choice models, and cost-benefit analysis.

Pre-requisite: ECON2003

**ECON4004 ADVANCED MACROECONOMICS**

A rigorous treatment of macroeconomic theory, developed from a standard general equilibrium framework. The course examines various modern macroeconomic models with microeconomic foundation, especially growth models and overlapping generation models. These models will be used to discuss the topics in long-term economic growth, taxation, inflation, and social security. This course will also serve as a preparatory course for graduate level study.

Pre-requisite: ECON2004

**ECON4005 PUBLIC ECONOMICS**

This course aims to provide students with some basic understandings about the role of government and the reasons of government interventions in the economy. How households respond to the government interventions will also be discussed.

Pre-requisites: ECON2002 and ECON2004

**ECON4006 LABOUR ECONOMICS**

An introduction to the concept of the labor market, and the elements that distinguish it from commodity or other factor markets. The economic theory of trade union behavior is discussed, as well as the effects of unions on labor markets and the economy as a whole. Economic statistics from Macao, Hong Kong, China and the United States are applied to understand problems of the labor markets in those countries.

Pre-requisite: ECON2002

**ECON4007 INDUSTRIAL ECONOMICS**

This course is an analysis of competition and monopoly power in market economies. It discusses elements and determinants of market structure, the effects of market power on economic performance, the behavior of firms under different market structures, and policies for regulating markets including antitrust policies. The activities of public enterprises are briefly discussed.

Pre-requisite: ECON2002

**ECON4008 LAW AND ECONOMICS**

This course discusses the application of microeconomic and econometric theory to common legal problems: torts, contracts, property and crime, and the limitations of economic analysis. No previous familiarity with the law is assumed.

Pre-requisite: ECON2003

**ECON4009 THE MODERN MACAO ECONOMY**

This course provides students with an understanding of the modern Macao economy. Emphasis will be placed on the economic development in the past twenty years. Sectoral analysis includes the dominant tourism, manufacturing, construction, and banking. Current issues such as structural change of the economy will be discussed.

Pre-requisite: None

**ECON4010 THE CHINESE ECONOMY**

The focus of this course is on reviewing and analyzing the economic performance of China. Topics include economic transition, reforms on agriculture and industry, fiscal and monetary issues, development of the non-state sectors, trade and foreign direct investment, social security system and others.

Pre-requisite: None

**ECON4011 ECONOMIES OF THE ASIA-PACIFIC REGION**

A course focusing on the economies of nations and territories within the Asia-Pacific region. The economic relationships among different countries within the region are a focus of attention, as are the economic links between the region and other parts of the world.

Pre-requisite: None

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### **ECON4012    SELECTED TOPICS IN ECONOMICS**

The major goal of this course is to get students familiar with frontier research in selected areas in economics and to motivate them to begin their own research.

Pre-requisite: approval from instructor

### **ECON4013    RESEARCH PROJECT ON SOCIAL SCIENCES II**

A continuation of Social Sciences Research Project I

Pre-requisite: Classification as A Fourth Year Student in Economics.

### **ECON4014    FINANCIAL ECONOMICS**

This course is an introduction to economics of financial assets and financial markets. Topics: inter-temporal choice, expected utility theory, security valuation, selected asset pricing models, market efficiency, and the term structure of interest rates.

Pre-requisite: ECON2003

### **ECON7700    MICROECONOMIC THEORY**

Methodological foundations of microeconomics. Theories of production and individual choice. Aspects of decision theory under certainty, risk and uncertainty. Introduction to game theory under complete and incomplete information, with applications to oligopoly. Perfect competition as a limiting case. General competitive equilibrium: existence and Pareto efficiency. Private information in markets. Basic auction theory. General theory of markets with adverse selection. Contract design in the context of moral hazard problems.

Pre-requisite: None

### **ECON7701    PUBLIC ECONOMICS**

Measurements of changes in welfare; economy-wide incidence of taxes; taxation, risk-taking, and investments; corporate taxation; effects of taxation on financial markets; taxation of goods and services; taxation of income; and tax arbitrage, tax avoidance, and evasion, also the underground economy. Applied capital theory for public-sector investment decisions; social opportunity cost of capital, labor, and foreign exchange.

Pre-requisite: None

### **ECON7702    LABOUR ECONOMICS**

Neoclassical analysis of labour market and its institutions. Topics on labour demand, labour supply, compensating wage differentials, human capital theory, discrimination and earnings differentials. Theories of wage and wage determination. Worker motivation and behaviour. Recent developments in the distribution of wage and salary income and in key institutions and organizational structures. Unemployment, search and turnover.

Pre-requisite: None

### **ECON7703    INDUSTRIAL ORGANIZATION**

Structure, behavior, and performance of firms and their interactions on social welfare, production, investment and other economic decisions under various forms of market structures. Organization of the firm, monopoly, oligopoly, price discrimination, auctions. Economic and social regulation, deregulation and privatization, patent, anti-trust. Principal agent theory, vertical and horizontal integration, contracts, firms' behavior under monopoly and oligopoly, government regulations.

Pre-requisite: None

### **ECON7730    MACROECONOMIC THEORY**

Overview of some classic topics in macroeconomics, with a view to providing students with the skills required to read critically recent professional articles. The main focus is on the basic analytical structure of economic models, their empirical implications, and some policy applications.

Pre-requisite: None

### **ECON7731 INTERNATIONAL TRADE AND FINANCE**

Applications of basic trade theory to real-world economic problems. Neoclassical trade theory of pattern of trade and gains from trade, strategic trade theory under imperfectly competitive markets, labour migration and capital mobility, market distortions and commercial policies, dynamic trade theory and economic growth. Adjustment in international exchange markets, balance of payments, and international monetary system. Application of recent theoretical analysis on macroeconomic fluctuations and growth within an open economy context.

Pre-requisite: None

### **ECON7732 DEVELOPMENT ECONOMICS**

Applied economic theories to economic growth and development. Meaning of development, economic growth, population and migration, capital flows, foreign aid, stabilisation and adjustment. Income distribution, poverty, hunger, household behaviour, agriculture, rural credit markets, institutions and the problem of corruption. Models of growth and developing emphasizing migration, modernization, technological change. Static and dynamic model of political economy.

Pre-requisite: None

### **ECON7733 MONETARY ECONOMICS**

Survey of monetary and financial economics with an emphasis on macroeconomic elements. Models and theories of money and financial intermediation. Standard methods of introducing money into the neoclassical growth framework, overlapping generations models, and search-theoretical foundations for money.

Pre-requisite: None

### **ECON7760 METHODS OF ECONOMIC RESEARCH**

Develops research ability of students through intensive discussion for preparing dissertation, individual and group research projects. Critical appraisal of modern economic research. Main techniques of empirical investigation and key issues in applying and testing theoretical models.

Pre-requisite: None

### **ECON7761 ECONOMETRIC ANALYSIS I**

Review of conditional distributions, expectation, regression and principles of inference. Linear regression models, ordinary and generalised least squares, heteroscedasticity. Non-linear least squares. Hypothesis testing and confidence intervals. Maximum likelihood estimation and testing. Introduction to models and methods for discrete and censored data. Simultaneity, exogeneity, instrumental variables methods. Dynamic models.

Pre-requisite: None

### **ECON7762 ECONOMETRIC ANALYSIS II**

Study of econometric techniques using time series and spatially dependent cross section data. Generalized method of moments estimation, spatial dependence modeling, vector autoregression models. Applications of these techniques in finance, macroeconomics, marketing, industrial organization, development, and other fields as well. Empirical processes and asymptotic theory, nonparametric and semiparametric estimation, unit roots and cointegration, continuous time econometrics.

Pre-requisite: None

### **ECON7763 ADVANCED TOPICS IN ECONOMIC THEORY**

Topics on some frontier issues in economic theory. Macroeconomics: optimal fiscal and monetary policy, time inconsistency and incentive incompatibility of optimal policy, real business cycle models, etc; Papers on current topics of research in economic theory, mathematical economics.

Pre-requisite: None

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**ECON7780 THE CHINESE ECONOMY**

Applies economic analysis to the study of Chinese economy. Sectoral contribution to the growth of total output. Formation of the development strategies before and after the economic reform. Evaluation of various macroeconomic policies after the 1980s; and China's integration with the global economy.

Pre-requisite: None

**ECON7781 REGIONAL ECONOMIES (ASIA-PACIFIC/EUROPEAN MONETARY UNION)**

Advanced economic analysis of the growing Asia-Pacific economies and the expanding European monetary union. Major issues such as economic liberalization and restructuring, regional integration and globalization. In-depth reading and individual research for selected regions.

Pre-requisite: None

**ECON7998 PROJECT REPORT**

A course focusing on developing and conducting individual projects under the supervision of an economics staff member, with the objective to motivate students become familiar with frontier research in selected areas in economics.

Pre-requisite: None

**ECON8805 ADVANCED TOPICS IN ECONOMETRICS**

The course investigates further current topics in theoretical and applied econometrics. Topics will vary and reflect current student and faculty's demand and instructors' interests. Selected advanced topics may include nonparametric and semi-parametric estimation, numerical optimization, simulation methods, time series, spatial, and panel data models

Pre-requisite: None

**ECON8806 ADVANCED TOPICS IN MACROECONOMICS**

The objective of this course is to provide an overview of some classic topics in macroeconomics, with a view to providing students with the skills required to read and write professional articles. The main focus is on the basic analytical structure of economic models, their empirical and policy implications.

Pre-requisite: None

**ECON8807 ADVANCED TOPICS IN MICROECONOMICS**

This course is organized into 3 parts, covering consumer and producer theories (Part I), market equilibrium and welfare (Part II) and selected topics in applied game theory (including part of behavioral economics) and its applications in the economics of information and incentives (Part III).

Pre-requisite: None

**ECON8999 DOCTORAL THESIS**

The purpose of the dissertation is to train students in a rigorous way to undertake independent economic research and to foster various research-related skills in addition to standard academic writing. The completion of the dissertation aims to encourage students to produce publishable essays, which should benefit future study and employment.

Pre-requisite: None

**GPAD1000 INTRODUCTION TO POLITICAL SCIENCE**

This course is designed to provide an introduction to political science. It will examine major concepts, issues, and methods of political science through an overview of the principal subjects in the discipline. Specific topics include political philosophy, power distribution, classification of political structures, political socialization, party systems and politics, types of representation, election models, and pressure group activities.

Pre-requisite: None

### **GPAD1001 INTRODUCTION TO POLITICAL THEORY**

This course examines the development of different political ideologies in modern times that attempt to address the problem of governance raised by modern mass society. Topics include Classical Liberalism, Neo-Liberalism, Socialism, Marxism and its variations, and the decline and revival of democratic theory.

Pre-requisite: None

### **GPAD2000 PUBLIC SECTOR PERSONNEL MANAGEMENT**

This course examines the civil service structure with respect to human resources planning, recruitment and decruitment, selection, orientation, employee training, career development, and compensation and benefits. Emphasis will be placed on civil service reform, managing workforce diversity, employment equity, performance assessment, sexual harassment, and family concerns.

Pre-requisite: None

### **GPAD2001 PUBLIC SECTOR ORGANIZATIONAL BEHAVIOR**

A study of the theory, research and practice related to human behavior in public sector organizations. A number of topics will be examined within the context of the civil service structure, including: the causes and effects of interpersonal and group behavior, its dynamics and influences, organizational behavior relating to organizational climates, organizational culture, formal and informal organizations, conflicts and resolutions, and people-oriented management.

Pre-requisite: None

### **GPAD2002 COMPARATIVE POLITICS**

This course examines the theory and practice of western democratic systems. Case studies include the governments of the United States, England, France, Germany, Japan and some small democratic nations in Europe. The socialist part covers such topics as the main features and patterns of socialism, the main principles of Marxism, democratic socialism, government structure, political culture, and political participation.

Pre-requisite: None

### **GPAD2003 SOCIAL SCIENCES RESEARCH METHODS**

This course provides an introduction to basic research concepts and various research methods. The course introduces concepts and methodologies for conducting both qualitative and quantitative research. Topics include: induction and deduction; hypotheses testing; research design and process; archival research; survey research; field research and historical research.

Pre-requisite: None

### **GPAD2004 HISTORY OF CONTEMPORARY INTERNATIONAL RELATIONS**

This course will examine important contemporary themes in international relations since World War I. We will focus on the causes of major wars, the development and retreat of imperialism, the rise of nationalism and the third world, the transformation of international institutions, and international diplomacy. Although we will pay special attention to how historians use historical methods to interpret these major events, we will also look at how international theorists explain them. Students will develop the ability to grasp key concepts in international relations history, to analyze historical events with the help of theoretical tools, and to conduct international relations research that is historically grounded.

Pre-requisite: None

### **GPAD2005 INTERNATIONAL LAW**

This course introduces students to public international law, the systems of norms, rules, institutions, and procedures that regulate the interaction between states as well as states and individuals. This course investigates the building blocks of international system and the forces that are transformative or destructive (or both). We will also examine and debate the role that law plays in international conflicts and some of the pressing issues affecting us today. This

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course also incorporates various internet technologies to arrive at a better understanding of the practice of law in an increasingly 'virtual' environment.

Pre-requisite: None

#### **GPAD2006 PUBLIC SECTOR ORGANIZATIONAL STRUCTURE AND DESIGN**

This course examines the structure and design of public sector organizations. Topics include work specialization, departmentalization, chain of command, span of control, centralization and decentralization, formalization, mechanistic and organic organizations, bureaucracy, systems theory, boundary scanning, and learning organizations.

Pre-requisite: None

#### **GPAD2007 MACROECONOMIC POLICY OF DEVELOPMENT**

The course covers topics on the methodology of economic theory and policy, including the general equilibrium, the classical model and the Keynesian IS-LM Model, the recent development of macroeconomic theory. Basic growth and development theories will also be examined.

Pre-requisite: None

#### **GPAD2008 GOVERNMENT AND BUREAUCRACY IN MACAO**

This course examines the legal, institutional, and functional interrelationships between the legislative, executive, and judicial branches of the Macao government, and the operation of the government bureaucracy. Topics include: finance and budgeting in the public sector; the policy-making process; roles of the press and interest groups; and current civil service practices and problems occurring in the civil service.

Pre-requisite: None

#### **GPAD2009 POLITICS OF HONG KONG AND MACAO**

This course examines the development of Hong Kong and Macao, their unification with China, and their current political problems. It focuses on the political and socio-economic changes during and the period of transition and after the turnover. Topics such as the 'one country, two systems' model, Sino-British and Sino-Portuguese negotiations, the joint declarations, the basic laws, representative government, political institutions, political participation and socialization, process of democratization, civil liberties and the rule of law will be examined.

Pre-requisite: None

#### **GPAD2010 POLITICS OF CHINA**

This course provides an introduction to Chinese politics, beginning with the rise of the Chinese Communist Party to power in 1949. It examines the Yanan and Soviet models of socialist development, their modification during the 1950s and 1960s, and political development after the death of Mao Zedong in 1976.

Pre-requisite: None

#### **GPAD2011 AMERICAN POLITICS**

The American political system is one of the most successful and influential in the world. It has been learnt and emulated by many countries in history. The purpose of this introductory course is to help students make sense out of the seemingly puzzling and sometimes even chaotic political phenomenon in the United States. In doing so throughout the course, students are expected to acquire a balanced and comprehensive understanding of theories and practices, institutions and processes, continuities and changes, merits and defects of the American political system. For students of international relations who are interested in United States' foreign relations and its role in the world, it is a highly recommended course as American foreign policy is closely related to the dynamics of its domestic politics.

Pre-requisite: None



### **GPAD2012 ASIAN POLITICS**

This course examines the politics of key Asian countries such as Japan, South Korea, and India. It will cover countries that, traditionally and presently, have strong connections with Macao, such as Thailand, East Timor, Burma, the Philippines and Indonesia. Main themes to be covered in this course may include: government structure, political culture, corruption and governance, ethnic politics, nationalism, globalization, development strategy, gender politics, social movements and democratization.

Pre-requisite: None

### **GPAD2013 POLITICAL AND SUSTAINABLE DEVELOPMENT**

What is political development? What explains development and underdevelopment in the global South? How can states achieve development? This course will introduce to students the major theories and issues in the field of political development. The main focus is on the political economy of development in developing countries. We will start with a critical review of the major theories and debates in development. Then we will shift to specific public policy issues in the field of development, with a focus on exploring solutions to current problems in development. Key issues include: nation-building, democratization, human rights, urbanization, political culture, and so on. Students will learn how to critically evaluate key concepts and theories, to develop research skills that are necessary in the field of political development.

Pre-requisite: None

### **GPAD2014 THE RISE OF ASIA**

This course reviews the process of social, political and economic modernization in Asia. It is a multi-disciplinary course that facilitates the students to acquire the foundational knowledge of Asian power politics and dynamic changes, covering topics of political history, political culture, political economy and foreign relations of major powers in the region. With an emphasis on comparative politics it will analyze the pattern of Asian democratization: the drivers and obstacles. The course will also assess key IR issues affecting regional security, e.g. US Asia pivot, China's rise and power transition and Japan's normalization drive.

Pre-requisite: None

### **GPAD2015 AN INTRODUCTION TO POLITICAL ECONOMY**

This course will introduce students to fundamental perspectives of political economy. It will provide a survey of the history of political economy, examining the free market perspective of Adam Smith, the free trade argument of David Ricardo, Karl Marx's critiques of capitalism, Veblen's focus on conspicuous consumption and the leisure class, Keynes's ideas to bring capitalist economies out of the Great Depression, and more recent neoclassical and neo-Marxist perspectives.

Pre-requisite: None

### **GPAD3000 ADMINISTRATIVE LAW I**

This is a survey course on the structure and operation of public administration and the body of norms that govern it (constitution and the laws) as well as those emanated therefrom (such as regulations, orders, and directions, etc.) It further examines the nature of administrative act and the principles of its legality and rationality. Finally, the remedies for administrative actions will be analyzed.

Pre-requisite: None

### **GPAD3001 ADMINISTRATIVE LAW II**

This course is a continuation of Administrative I. The concepts covered in Administrative Law I will be further explored to provide a deeper understanding of relevant theory and practice.

Pre-requisite: Administrative Law I

### **GPAD3002 PUBLIC FINANCE**

This course examines the use of fiscal and monetary policies to achieve socio-economic and political objectives. Topics include: the functions of public budgeting, Keynesian model and the

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monetary revision, budgetary process, revenue budgeting, expenditure budgeting, capital budgeting, concepts of taxation, protective strategies and counter strategies, interest and exchange rates issues, auditing and evaluation.

Pre-requisite: None

### **GPAD3003 PUBLIC POLICY ANALYSIS**

This course aims at developing critical understanding of public policy, especially in the context of social justice. It will focus on the introduction and examination of policy analysis frameworks and decision theories. Examples will be drawn from China, Macao, and Hong Kong to demonstrate the process of policy analysis.

Pre-requisite: None

### **GPAD3004 INTERNATIONAL RELATIONS THEORY**

This course introduces and examines key theories and approaches in the study of international relations, including realism and neo-realism; theories about war, security and the use of force in international relations; classical liberalism, globalization, and transformation in world politics; theories about inter-state co-operation and transnationalism; the concept of international society; constructivism and the impact of law and norms in international relations; neo-Marxist and critical theoretical approaches to international relations; and normative theory and international ethics.

Pre-requisite: None

### **GPAD3005 INTERNATIONAL ORGANIZATION AND WORLD GOVERNANCE**

As international organizations have become an integral part of a complex hub of a multi-level governance structure, and that international organizations have proliferated its roles in world governance under the effect of globalization, this course will study the development of international organizations and its emerging network in world governance by examining the nature, role, impact, and potential of international organizations. This course will also examine various actors who operate at the global level, including nation states, international organizations, multi-national corporations (MNCs), non-governmental organizations (NGOs) and individuals, to better understand the perspectives these actors bring to global discussions and explore the mandate of these organizations through various issues: global and multilateral governance of public health, trade, energy, food safety, peace and security, global environmental governance, and settlement of transnational disputes.

Pre-requisite: None

### **GPAD3006 FOREIGN POLICY DECISION-MAKING**

This course examines definition and process of foreign policy and major theoretical approaches to Foreign Policy Analysis, including realism, liberalism and constructivism. It then introduces rational, bureaucratic, organizational and psychological models of foreign policy decision-making. It also addresses the role of media and public opinion, national security and economic issue in foreign policy. Case studies are conducted on major powers like the U.S., China, Russia, the U.K., France, Germany, Japan, and the EU.

Pre-requisite: None

### **GPAD3007 PUBLIC SECTOR STRATEGIC PLANNING**

This course examines the importance and the process of strategic planning. Emphasis will be placed on PEST environmental scanning and SWOT analysis. Strategic planning at different levels of public sector organizations will be examined, with emphasis on proactive decision-making, contingency planning, environmental adaptability, and turning threats into opportunities.

Pre-requisite: None

### **GPAD3008 PUBLIC RELATIONS**

This course examines the theories and concepts underlying public relations principles, actions, and problem-solving. It provides study and practice in public relations and promotion to

influence and persuade diverse audiences, using skills and techniques to promote organizations, their policies, actions, goods, services, and public missions to create and maintain favorable public opinion. The focus is on how images and messages enhance public persuasion. Students practice promotional writing with exercises in the preparation of memoranda, press releases, features, and copy design for internal and external communications.

Pre-requisite: None

### **GPAD3009 STATISTICS FOR PUBLIC MANAGEMENT**

This course provides an introduction to statistical techniques which can be applied to public administration. The emphasis is on explaining statistical procedures and interpreting the resulting conclusions. Topics include: introduction to statistics, organization and presentation of data, frequency distribution, central tendency and dispersion, probability and probability distributions, central limited theorem, hypothesis testing, one-sample significance test, sampling concepts, correlation analysis, measurement of association, introduction to SPSS.

Pre-requisite: None

### **GPAD3010 EUROPEAN UNION'S POLITICS**

This course is an introduction to the governmental structures, political cultures, and policy-making processes that characterize European countries and the European Union. Case studies include the European Union, its member states, as well as other countries.

Pre-requisite: None

### **GPAD3011 CHINESE FOREIGN POLICY**

This course examines the determinants of China's foreign policy and her foreign relations since the founding of the People's Republic of China in 1949. The course will focus on China's new social conditions, directions, and foreign policies in the rapidly changing global environment. It will also discuss the new opportunities and challenges that China is facing as a rising power on the world stage. The course is designed to examine relevant issues from both Chinese and other perspectives in order to stimulate discussion among students of different disciplines and backgrounds.

Pre-requisite: None

### **GPAD3012 AMERICAN FOREIGN POLICY**

More than a half century ago, the United States emerged from the Second World War as the most powerful nation on the earth. At the beginning of the 21st century it remains the sole superpower in the world. Because of its unique position in international relations, the success or failure of American foreign policy not only affects the well-being of the American people, but also has a great impact on war and peace in the rest of the world. This course examines American foreign policy from three vantage points: the evolution of American foreign policy in the Cold War period, policy making process in the context of the American political system, and the challenges the United States is facing in the post-Cold War and post-'9.11' era. By taking this course, students will acquire a more informed, balanced, and intellectual understanding of the main features of American foreign policy, the connection between American domestic politics and foreign policy, and the potential and limitation of the United States as a world power vis-a-vis other countries.

Pre-requisite: None

### **GPAD3013 SINO-AMERICAN RELATIONS**

Sino-American relations are characterized by the American President Obama as the 'most important bilateral relations in the world.' With China's rise to the level of world power, the state of this pivotal relationship is increasingly impacting the rest of the world for better or worse? This course introduces students to the geopolitical, domestic, and ideological factors that have shaped the Sino-American relationship in the past and the present. It examines the military, economic, and diplomatic dimensions of current interactions to arrive at a clearer

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understanding of the past trajectory, present state, and possible future direction of relations between the United States and China.

Pre-requisite: None

#### **GPAD3014 CHINA-EUROPEAN RELATIONS**

This course examines the international interactions between China and Europe. Following a brief historical account of bilateral relations, it focuses on issues of major concern, including economic, security, energy, environment, human rights and cultural aspects. It then introduces China's relations with major European powers, including the U.K. France, Germany, Eastern European countries, and the EU. The unique role of Hong Kong and Macao in Sino-European relations is also discussed.

Pre-requisite: None

#### **GPAD3015 FOREIGN POLICY OF THE EUROPEAN UNION**

European Union is both an international organization of 27 European states and a supranational polity governed by a legislative and judicial bodies guided by the EU law and its founding treaties. Its double nature – an international organization and a supranational polity – is reflected in its foreign policy. The course examines the competencies and functioning of the foreign policy-making bodies of the European Union – the Council, the European Commission and Parliament and the High Representative for Foreign and Security Affairs. In addition, it examines the processes and procedures of foreign-policy decision making, including the role of individual Member States and their governments in the shaping and implementation of the EU foreign policy. Particular attention will be given to separate strands in the EU's foreign policy – its international trade policy, international humanitarian and development aid policies as well as its policies regarding international conflicts such as those in Iraq and Afghanistan.

Pre-requisite: None

#### **GPAD3016 CHINA-EAST ASIAN RELATIONS**

This course explores China's relations with some major players in East Asia such as Japan, South Korea, Russia and ASEAN countries. Historically China's relations with these countries were far from being peaceful and cooperative. In recent decades, China has invented a new strategy of 'peripheral diplomacy' which has significantly improved its relations with East Asian neighbors. However some outstanding problems and difficulties remain in China-East-Asian relations including territorial disputes, historical and cultural discord, and ideological and geopolitical conflicts. The course will analyze China's major bilateral relations as well as its diplomacy with multilateral institutions and organizations in the region.

Pre-requisite: None

#### **GPAD3017 INTERNATIONAL POLITICAL THEORY**

The course aims to explore international relations from the perspective of political theory. We examine the meaning of morality and ethical judgment in the context of a number of issues and practices in international relations, including wars, terrorism, human rights, state sovereignty, globalization, role of international law and global inequality. Students will critically assess the ethical practices of states and non-state actors through theoretical analysis, case studies and simulation exercises.

Pre-requisite: None

#### **GPAD3018 CAPITALISM AND MODERNITY**

This course examines the foundations of political economy. While these foundations were originally optimistic, promising human progress through economic progress, they were challenged in the 19th century by both reactionary pessimism and by radical critique. In our own time, growing awareness of the problems of generating unlimited growth and granting unrestricted capital mobility across nations have led some to question the idea of economic progress. The course demonstrates the historical novelty of capitalism and demonstrates that the human impulse to accumulation of capital is in no way a fundamental part of the human condition. By contrast with today, until the early 19th century in Europe, the needs of the society

have historically taken precedence over the needs of the economy. The writings of classical thinkers in political economy will be explored to develop these ideas. No prior knowledge of modern political theory or of economics is assumed.

Pre-requisite: None

### **GPAD3019 CONFLICT AND COOPERATION IN INTERNATIONAL RELATIONS**

This course is an introduction to the causes, nature and processes of conflict and cooperation in international relations. Historical and modern cases will be combined with an overview of the theoretical frameworks to provide students with a comprehensive understanding of conflict and cooperation in the contemporary world.

Pre-requisite: None

### **GPAD3020 RELIGION IN INTERNATIONAL RELATIONS**

This advanced course will examine the complicated relationship between religion and global politics. Topics will include the problem of defining religion as an analytical category, the religious origins of modern state sovereignty, the role of religion in violence and peacemaking, varieties of religious fundamentalism, the politics of sacred spaces and conflicts between religious practices and emerging human rights norms. Readings will draw broadly from political science, religious studies, sociology, and history. A prior course in international relations, comparative politics, or religious studies is required. Students not meeting this requirement will be admitted at the discretion of the instructor.

Pre-requisite: None

### **GPAD3021 DEMOCRACY AND DEMOCRATIZATION**

This course aims to study democracy in theory and practice based a comparative approach. It looks into the transition and consolidation processes that began in the late 20th century. Is democracy the 'best' institutional arrangement in modern or post-industrial society? With the collapse of communism in the 90s, has history 'ended'? Are 'Asian values' anathema to Western liberal democratic 'values'? What are the conditions, both domestic and international, that help explain democratic development? What explains the resurgence of authoritarianism? How important is deliberative democracy? In addition to addressing the problems with democratic transition and consolidation, this course examines the concepts of democracy and democratization, deliberative process in making public policy, and their significance and relevance for academics, politicians, activists and citizens.

Pre-requisite: None

### **GPAD3022 E-GOVERNMENT AND E-GOVERNANCE**

The government's use of Information and Communication Technologies (ICTs) is not only a tool to achieve better government but also aims at good governance. This course is divided into two parts. The first part covers issues on the establishment of e-government, including: reasons to embrace e-government, challenges to e-government, planning, implementation and management of e-government, and types and forms of e-services. The second part focuses on the use of ICTs to bring citizens to the government process for the sake of good governance; topics include e-participation, e-deliberation, e-voting and e-democracy.

Pre-requisite: None

### **GPAD3023 GAME THEORY APPLICATIONS IN POLITICS AND ADMINISTRATION**

This course is an introduction to game theory, concentrating on applications in politics and public management. Game theory is the formal method of examining interdependent decisions. An interdependent decision is one where what you do will depend on what someone else does. For example, a politician running for office may consider how voters will react to an issue stance. Topics include prisoner's dilemma, coordination games, signalling in politics, etc. Game theory provides tools for evaluating these situations. By the end of the course, students should be able to recognize strategic situations, apply formal models, and 'solve' them.

Pre-requisite: None

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### **GPAD3024 GOVERNANCE REFORM IN CONTEMPORARY CHINA**

This course deals with governance reforms (and their limitations) in China during the transition to market socialism. It explores the factors necessitating the reforms, the impact of the reforms on state-society relations, the emergence of a civil society and the rising political aspiration of the people.

Pre-requisite: None

### **GPAD3025 LABOR POLITICS**

The class provides an overview of labor and employment relations, including the perspective of working people and their organizations. Some of the topics covered in this course include the changing nature of work, workers and workers' organizations; the impact of technology, the economic cycle, class, immigration, race, ethnicity and gender; the role of government in labor policy; the history of unions, their role in politics and challenges the labor movement faces today. Following this course, students will demonstrate an understanding of the policy and political issues relating to labour, and the political nature of work.

Pre-requisite: None

### **GPAD3026 POLITICS OF THE TOURISM ECONOMY**

Tourism has become an important engine of economic growth in many Asian societies. This turn to tourism however has generated a set of social, political and ecological conflicts between and within the guests and the host societies. This course aims to train students with a better understanding on the socio-political dynamics unleashed by this development strategy. It is divided into three sections. The first part introduces students to various theories accounting for the rise of tourism and its transformation into a core development strategy in the post-industrial world. The second part covers main political conflicts inside tourist economies involving ethnicity, gender, labour, environment and class. The final section devolves into detailed studies of thematic topics (for instance, heritage tourism, national parks, ecotourism, sex tourism, casino tourism) and/or country studies (for instance, tourism policy of China, Singapore, South Africa) in order to provide more nuanced illustrations of the political dynamics of tourism economies.

Pre-requisite: None

### **GPAD3027 SOCIAL POLICY AND ECONOMIC DEVELOPMENT IN MACAO**

Industrial transformation and the change of demographic profile of Macao Special Administrative Region steer to revision of social policy in parallel to its economic development. This course focuses on the evolution of Macao's social policy corresponding to the changing socio-economic-political circumstances. It aims to provide a comprehensive understanding of the impact of demographic profile, poverty, education/ health inequality and regional integration on social policy. Apart from the introduction of concepts and theories for the understanding of social policy, some advanced statistical methods, like the decomposition of the Gini Coefficient, cluster analysis and factor analysis, will be introduced and applied for analyzing the effect of social policy change.

Pre-requisite: None

### **GPAD3028 INTERNSHIP**

In collaboration with relevant government departments and agencies, private and public companies, and other social organizations, this course provides short-term work placement opportunities in Macao and elsewhere for students in the Department so as to enhance their skills of applying academic knowledge to solve real world problems.

Pre-requisite: None

### **GPAD3029 INDEPENDENT STUDIES ON POLITICAL SCIENCE AND PUBLIC ADMINISTRATION**

In this course individual students and instructors will work together to select a specific topic for intensive study. This study will be arranged in the form of weekly thesis workshop. The instructor will train the participants advanced method of research, including thesis design, data

processing and analysis and writing skills. The students will present their research findings, project composition and thesis contents (structure, argument and conclusion) in the class and engage fellow students for meaningful discussion.

Pre-requisite: None

### **GPAD3030 PUBLIC CHOICE**

Essentially all public policies can be characterized as political equilibria among self-interested participants in political process. Public policies change when these equilibria change. Political and legal institutions affect those equilibria, because they create the rules of the political game. This course provides a survey of the public choice literature and explores the connections between political institutions, politics, and public policy. In particular, methodologies of neoclassical economic analysis as applied to political science will be explored. It is hoped that students will be able to use this toolkit.

Pre-requisite: None

### **GPAD3031 PUBLIC MANAGEMENT IN ASIAN STATES**

This senior level course traces development in the field of public administration based on a comparative approach in studying administrative reforms in Asian societies, such as Singapore, Hong Kong, Macao and China (at least two of these states). It takes into account the paradigmatic shift in the discipline in view of the challenges posed by the 'new public management (NPM) paradigm' since the 1980s. In assessing public administration reform outcomes, this course encourages students to explore viable alternatives or approaches (e.g. neo-Weberian school, governance, participatory and networks) in tackling reform problems pertaining to the implementation of NPM in Asian states.

Pre-requisite: None

### **GPAD4000 CONSTITUTIONAL LAW**

This is an introductory course to familiarize the students with the inception of constitutional movements and the specific goals of having a constitution on the one hand and constitutional theories and practices on the other. The contents and classifications will be briefly surveyed. Of pivotal importance is the mechanisms of its working in a society; therefore, constitutional tribunals and its like, such as the ordinary reviewing courts, will be closely examined.

Pre-requisite: None

### **GPAD4001 RESEARCH PROJECT**

This research project is designed to integrate and apply the extensive theoretical and practical knowledge acquired throughout the undergraduate programme. Students will identify and conduct a research project under the supervision of a staff member. Topics are selected within the discipline of government and public administration.

Pre-requisite: None

### **GPAD4002 INTERNATIONAL SECURITY**

This course examines the fundamental elements and factors underlying global and regional security. The course will analyze the historical evolution of international security since World War II, from the Cold War to the current conflicts. Contending theoretical arguments, such as Realism, Trans-nationalism and Constructivism, will be presented and critically examined. Students will be encouraged to study the competing strategies employed by different players and to predict the potential ramifications. It will also study the evolution of security study as a subfield of international relations with a focus on the emergence of non-traditional security issues and its increasing importance.

Pre-requisite: None

### **GPAD4003 GRADUATION PROJECT ON INTERNATIONAL RELATIONS**

In this course, students are required to identify and conduct a research project on international relations under the supervision of the instructor. Topics are selected within the discipline of international relations broadly defined by students in consultation with the instructor. A

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substantive research paper with theoretical rigor and empirical richness is expected from students. The course also serves the function of assessment of overall knowledge, analytic skill, writing capability, and original thinking that students have acquired in the course of four-year study in the programme.  
Pre-requisite: None

#### **GPAD4004 ADMINISTRATIVE ACCOUNTABILITY AND ETHICS**

This course examines the different types of accountability and issues regarding ethical management. Topics include social responsibility, social responsiveness, professional ethics, value-based management, different views of ethics, factoring affecting managerial ethics, managing ethical conflicts, administrative transparency, sustainable development, and the 'greening' of management.  
Pre-requisite: None

#### **GPAD4005 PROGRAMME EVALUATION AND PERFORMANCE ASSESSMENT**

This course examines the process and issues regarding performance measurement at the organizational, programme, and individual levels. A number of approaches to performance measurement will be introduced. The process of goal setting, establishing achievable objectives, setting performance targets and indicators, data collection, setting regular reviews, and providing feedback is examined from the perspective of organizational learning in the context of public sector management.  
Pre-requisite: None

#### **GPAD4006 PUBLIC ADMINISTRATION: MACAO AND HONG KONG**

This course examines the development of Hong Kong and Macao, their unification with China, and their current political problems. It focuses on the political and socio-economic changes during the period of transition. Topics such as the 'one country, two systems' model, Sino-British and Sino-Portuguese negotiations, the joint declarations, the basic laws, representative government, political institutions, political participation and socialization, process of democratization, civil liberties and the rule of law will be examined.  
Pre-requisite: None

#### **GPAD4007 PUBLIC ADMINISTRATION: CHINA**

This course examines the public administrative institutions and processes in China. Topics include the reform of the cadre system and its relationship with other institutional changes, the anti-corruption policy, social welfare policy, budgeting, and the relationship between the central and local governments.  
Pre-requisite: None

#### **GPAD4008 SELECTED TOPICS IN PUBLIC ADMINISTRATION**

This course is designed to be highly flexible to allow examination and discussion of issues in public administration that warrant attention. Discussion topics will be selected by the instructor with emphasis on current events.  
Pre-requisite: None

#### **GPAD4009 RESEARCH PROJECT ON PUBLIC ADMINISTRATION**

This subject provides opportunity for students to do advanced research and to peruse academic scholarship in the field of public administration and management as well as to evolve as independent thinker. Different to the Research Project course, it allows students to explore their aptitude for research with theoretical concepts and individualized framework. Students are expected to address questions and issues for which no known or generally accepted answers exist. At the end, students have to present and defense their research findings in an examination committee.  
Pre-requisite: None



#### **GPAD4010 INTERNATIONAL PUBLIC POLICY**

This course aims to help students better understand the various important international public policy issues facing the world today. As globalization deepens around the world, states are challenged by pressing issues such as poverty, climate change, transnational migration, HIV and AIDS, and civil wars. On the one hand, states authority is weakened as a result of increasingly powerful NGOs, global firms, and individuals. On the other hand, certain global issues such as climate change cannot be resolved without the coordination among states. Thus we will pay close attention to the ways states and the global civil society interacts. This course will discuss these issues in details, and explore possible solutions to some of the problems. Theoretical frameworks in international relations (realism, liberalism, and constructivism) will be employed to analyze the issues.

Pre-requisite: None

#### **GPAD4011 INTERNATIONAL ENVIRONMENTAL AND ENERGY POLICY**

This course examines the nature and emergence of international environmental problems, issue of energies and the response of the international community. Looking at a number of cases, including ozone depletion, desertification, bio-diversity, global warming, and competition for energy resources, the student will investigate international environmental and energy policies and the extent to which such policies and institutions provide effective governance, the extent to which international relations theory can explain such policies and also discuss the ethical dimensions of decision making.

Pre-requisite: None

#### **GPAD4012 INTERNATIONAL HUMAN RIGHTS POLICY**

In the era of rapid globalization, human rights and their protection have increasingly become subject of international policies of governmental as well non-governmental actors. And yet, in spite of growing international protection of human rights, there are still many unresolved questions regarding their scope and implementation. For example, what rights are to be recognized as universal human rights? And which institutions – international or domestic – are obliged or entitled to protect human rights of individuals and groups? These highly controversial questions will be examined in the context of current theories of human rights and of the role of international institutions such as the UN. The course explores the history of international recognition and protection of human rights and the major international declarations and covenants regarding human rights (such as the UN and European covenants on human rights). The role of international organizations of states (the UN, African Union and the like) as well as non-governmental organizations such as Human Rights Watch and Amnesty International is to be discussed. The course also explores current developments in the theory and practice of international protection of human rights such as the R2P – Responsibility to Protect.

Pre-requisite: None

#### **GPAD4013 EAST ASIAN INTERNATIONAL RELATIONS**

Will China become a threat to international stability as its power continues to grow in the coming years? Will the twenty-first century be the century of the Asia-Pacific? Is the East Asian model of development sustainable? How does globalization affect security, political economy, human rights, and environment in East Asia? How should the international society deal with the North Korean nuclear crisis? This course aims to answer the above questions. We will start with a survey of major theories in international relations, including realism, liberalism, and constructivism. Our emphasis will be on the advantages and disadvantages of each theory in explaining major events in East Asia. We will pay special attention to East Asian histories, particularly since 1945. Topics to be addressed include: patterns of conflict and cooperation in East Asia, security arrangements, international political economy, globalization, human rights, and new security concerns. After completing this course, students should be able to apply international theories to analyze various political and economic issues concerning East Asia.

Pre-requisite: None

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#### **GPAD4014 RESEARCH PROJECT ON INTERNATIONAL RELATIONS**

This subject provides opportunity for students to do advanced research and to peruse academic scholarship in the field of international relations as well as to evolve as independent thinker. Different to the Research Project course, it allows students to explore their aptitude for research with theoretical concepts and individualized framework. Students are expected to address questions and issues for which no known or generally accepted answers exist. At the end, students have to present and defense their research findings in an examination committee.

Pre-requisite: None

#### **GPAD4015 SELECTED TOPICS IN INTERNATIONAL RELATIONS I**

This course is designed to be highly flexible to allow examination and discussion of important issues in international relations that may not be covered by other courses in international relations. Discussion topics will be selected by the instructor with emphasis on current events. Students are encouraged to apply learned concepts, theories and analytic approaches to critically understand and explain international events and phenomena in the real world. This course also provides an opportunity for students to independently investigate and explore international issues that intellectually interest them.

Pre-requisite: None

#### **GPAD4016 SELECTED TOPICS IN INTERNATIONAL RELATIONS II**

This course is designed to be highly flexible to allow examination and discussion of important issues in international relations that may not be covered by other courses in international relations. Discussion topics will be selected by the instructor with emphasis on current events. Students are encouraged to apply learned concepts, theories and analytic approaches to critically understand and explain international events and phenomena in the real world. This course also provides an opportunity for students to independently investigate and explore international issues that intellectually interest them.

Pre-requisite: None

#### **GPAD4017 SELECTED TOPICS IN INTERNATIONAL RELATIONS III**

This course is designed to be highly flexible to allow examination and discussion of important issues in international relations that may not be covered by other courses in international relations. Discussion topics will be selected by the instructor with emphasis on current events. Students are encouraged to apply learned concepts, theories and analytic approaches to critically understand and explain international events and phenomena in the real world. This course also provides an opportunity for students to independently investigate and explore international issues that intellectually interest them.

Pre-requisite: None

#### **GPAD4018 SELECTED TOPICS IN INTERNATIONAL RELATIONS IV**

This course is designed to be highly flexible to allow examination and discussion of important issues in international relations that may not be covered by other courses in international relations. Discussion topics will be selected by the instructor with emphasis on current events. Students are encouraged to apply learned concepts, theories and analytic approaches to critically understand and explain international events and phenomena in the real world. This course also provides an opportunity for students to independently investigate and explore international issues that intellectually interest them.

Pre-requisite: None

#### **GPAD7100 PUBLIC ADMINISTRATION: THEORY AND PRACTICE**

This is a postgraduate course in the theory and practice of public administration as a discipline. Although students taking this course should preferably have some background knowledge in a cognate discipline, this is, however, not a course in social administration, social work and welfare studies, sociology, communication, international trade, and economics. Students will acquire knowledge of major theoretical advances in the discipline and practical knowledge from empirical studies related to administrative reforms since the 18th century in developed

countries. The course assesses student's ability to "marry" concepts and theories to the empirical studies in public administration.

Pre-requisite: None

#### **GPAD7101 PUBLIC POLICY ANALYSIS**

This course introduces the methods of public policy analysis by reviewing the main theoretical approaches in the field and examining key policy issues in Macao, Hong Kong and mainland China. The course has three main components: First, basic concepts in the analysis of the policymaking process and the political and institutional contexts of policy making. Second, the major theoretical approaches to the study of policy making, policy implementation and evaluation. Finally, several important policy issues in Macao, Hong Kong and mainland China will be illustrated as case studies.

Pre-requisite: None

#### **GPAD7102 PUBLIC FINANCE**

This course introduces the role of government in the economy, as well as, some theories of public administration and economics to explain the impacts of some selected policies on the economy. This course covers welfare economics, the relationship between government and the market, some key concepts in public finance (public goods, merit goods, externality, efficiency, and equity), besides, the background and impacts of selected public policies, like housing policy and social welfare policy.

Pre-requisite: None

#### **GPAD7103 HUMAN RESOURCES MANAGEMENT**

This is a postgraduate course in the theory and practice of personnel management in the public, non-profit and private sectors. This course covers workforce planning, position management, performance management, and some key concepts, including motivation, and health and safety. The students can apply and relate the concepts and theories of personnel management in modern government to empirical studies in the non-profit and private sectors as well, taking into account change and development in the environment.

Pre-requisite: None

#### **GPAD7104 PUBLIC POLICY IN CHINA**

This course focuses on the public policy-making system in mainland China and includes an examination of policy making in specific sectors, such as industry, agriculture and the open-door policy.

Pre-requisite: None

#### **GPAD7105 PUBLIC ADMINISTRATION IN CONTEMPORARY CHINA**

This course examines the context of public administration in contemporary China: party and state institutions, central and local relations, the role of the state in the economy, and state and society relations.

Pre-requisite: None

#### **GPAD7106 ORGANIZATIONAL BEHAVIOR**

This course focuses on the nature, types and characteristics of organizations as well as the tools and skills used in management. Emphasis is placed on problem solving. Topics include organizational structure and design, control and distortions, bureaucratic corruption, administrative leadership, motivation and work behavior, decision-making and resource management.

Pre-requisite: None

#### **GPAD7107 POLITICAL ECONOMY**

This course surveys the objectives pursued by government in managing the economy, the means employed in pursuit of those objectives, and theories concerning economic behavior of governments.

Pre-requisite: None

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### **GPAD7108 RESEARCH METHODS IN PUBLIC ADMINISTRATION**

Social Science Research Methods examine the scientific methods applied to various public administration and social science research topics. As it is a master course, all students are assumed to have specific research experience or knowledge of research methods. Therefore, in this course, all students are introduced to various real projects, and the instructor explains the selected projects in detail.

Pre-requisite: None

### **GPAD7109 CONSTITUTIONAL LAW**

This is an introductory course to familiarize the students with the inception of constitutional movements and the specific goals of having a constitution on the one hand and constitutional theories and practices on the other. The contents and classifications will be briefly surveyed. Of pivotal importance is the mechanisms of its working in a society; therefore, constitutional tribunals and its like, such as the ordinary reviewing courts, will be closely examined.

Pre-requisite: None

### **GPAD7110 ADMINISTRATIVE LAW**

This is a survey course on the structure and operation of public administration and the body of norms that govern it (constitution and the laws) as well as those emanated therefrom (such as regulations, orders, and directions, etc.) It further examines the nature of administrative act and the principles of its legality and rationality. Finally, the remedies for administrative actions will be analyzed.

Pre-requisite: None

### **GPAD7111 DECISION MAKING: THEORY AND PRACTICE**

As a foundational course in the MPA curriculum, this course will focus on theoretical and empirical analysis of decision making. The goals of the course are to introduce a variety of accepted theories in understanding decision making. The course seeks to help students familiarize themselves with decision making within organizations and collective choices with conflicting interests, as well as coordination and institutional solutions to problems related to collective choices. To help students think analytically about the ways decisions are made within organizations in the political, economic and security arena. The knowledge gained will be applied to several real-life cases in American foreign and security policies. Comparison will be made between America and China.

Pre-requisite: None

### **GPAD7112 RESEARCH DESIGN**

This course aims to improve students' ability to design feasible and theoretically sound research projects. The course will introduce a variety of research designs for social sciences, from the commonly used approaches, such as survey, focus group, and case study, to the multidisciplinary approach of operations research, such as game theory and simulation. Heavier emphasis will be placed on the commonly used approaches. This course emphasizes improving the ability to find good solutions to research design problems, rather than introducing different research methods. Students enrolling in this course are required to have taken at least an introductory research method course at either graduate or undergraduate level.

Pre-requisite: None

### **GPAD7198 PROJECT REPORT**

The Project Report is an extended research essay to report findings of an individual research project. Students should undertake a systematic study into a topic in the scope of international relations, broadly defined. They should apply substantive knowledge and develop analytical skills, acquired from the Programme and beyond. They are required to define a central research question, design a proper analytical process, and develop a reasonable argument. The body of the report should be organized into sections in a logical way and follow the standard format and styles. It must be written in English or Chinese.

Pre-requisite: None

### **GPAD7303 CONTEMPORARY INTERNATIONAL RELATIONS**

This course examines theories and approaches in the study of international relations, such as realism and neo-realism, classical liberalism, transnationalism, constructivism, Marxism and neo-Marxist, etc. Detailed analysis of current and historical events will be presented to enhance students' understanding of relevant concepts. Students are required to present their own critical analysis of selected cases to demonstrate their understanding and ability.

Pre-requisite: None

### **GPAD7305 GLOBAL POLITICAL ECONOMY**

This course examines the political process of international economy, and the interaction between state and market, and power and wealth in international relations. Issues on trade, investment, development, globalization and regional integration will be examined in details. Different schools of thought and approaches will be explained. Regional cases, especially the implications of the rising China, will be examined. Students are required to present critical analysis to demonstrate their understanding and ability.

Pre-requisite: None

### **GPAD7306 INTERNATIONAL ORGANIZATIONS AND GLOBAL GOVERNANCE**

The course examines the central issues of global governance today, in particular, with regards issues of international peace and security, global financial and trade regulations, protection of the environment, humanitarian and development assistance, and human rights protection. The role and impact of the major international organizations such as the United Nations, the European Union, etc. will be examined in this context. However, emphasis will also be placed on other international actors, including multi-national corporations, international non-governmental organizations as well as the state governments. The challenges and opportunities that face the international community in the continuing globalization of politics, economy, society, and culture will be addressed. As a major objective, key concepts and theories will be introduced as analytical tools, as well as introduction to essential research design in the field.

Pre-requisite: None

### **GPAD7312 RESEARCH DESIGN IN INTERNATIONAL RELATIONS**

This course aims to improve students' ability to design feasible and theoretically sound empirical research projects to evaluate theoretical arguments empirically. The course will introduce a variety of research designs for international relations, but heavier emphasis will be placed on the commonly-used approaches such as regression analyses of observational data, experimental analyses, and qualitative case study approaches.

Pre-requisite: None

### **GPAD7314 SELECTED TOPICS IN INTERNATIONAL RELATIONS**

This course aims at ensuring that students gain adequate knowledge of the recent developments in international relations theory, recent international policies, and new policy initiatives and programmes. For example, topics may include recent developments in one or several theoretical approaches to international relations (constructivism or neoliberalism). In addition, new international policies or initiatives of regional organizations or individual states may be examined, and their future development and impact discussed. Among possible topics are the EU initiatives in its relations with China, or Asia, or the new foreign policies of individual governments in the region (e.g. Australia).

Pre-requisite: None

### **GPAD7316 THEORIES OF INTERNATIONAL RELATIONS**

This course is a survey of major theories and approaches in international relations, such as realism and neo-realism, classical liberalism, liberalism, the English School, constructivism, critical theory, Marxism and neo-Marxist, poststructuralism, postcolonialism, feminism, relationalism and posthumanism. The strengths, weaknesses, and contemporary relevance of these theories as well as major theoretical debates will be examined to help students deepen

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their understanding of relevant concepts and their connections with the practices and challenges of world politics. Students are required to participate in the class discussion and write a research essay to present their own critical analysis of a chosen topic.

Pre-requisite: None

### **GPAD7317 CHINA-EUROPE RELATIONS**

This course focuses on the relations between China and the European Union (EU). Substantively, it first provides a comprehensive survey of China-EU relations different aspects, including political-strategic, economic, sociocultural, environmental-energy, and technological. It then embeds China-EU relations in a broader context, particularly within two triads: China-US-EU and China-Russia-EU. Further, it explores the role of China and the EU in their respective neighborhood.

Pre-requisite: None

### **GPAD7318 CHINA'S RELATIONS WITH PORTUGUESE-SPEAKING COUNTRIES**

The theoretical framework of this course is grounded in post-colonial studies, regional development, globalization, and China's foreign policy. Initially, the course traces the long-term relationship between China and the Portuguese Republic as well as the period of pre-independence of all Portuguese-speaking Countries. Later, it focusses on the importance of China-Brazil relations, and the relations between China and all Portuguese-speaking Countries after independence.

Pre-requisite: None

### **GPAD7319 CHINESE FOREIGN POLICY**

This course surveys the basic concepts and contexts of contemporary Chinese foreign policy, factors and determinants in Chinese foreign policy making, key issues in Chinese foreign policy (including sovereignty, territorial integrity, national security, economic security, energy, resource, environment, and soft power). It discusses China's bilateral and multilateral diplomacy in regional and global contexts, the challenges facing contemporary Chinese foreign policy, and how China should respond to those challenges.

Pre-requisite: None

### **GPAD7320 DATA SCIENCE FOR INTERNATIONAL RELATIONS**

"Data Science for International Relations" is an interdisciplinary course that leverages the power of data science to analyze and interpret complex international relations phenomena. Students will learn to use statistical analysis, predictive modeling, machine learning, and other data science tools to study global trends, conflicts, diplomacy, and policy-making. The course also emphasizes ethical considerations in data usage and interpretation. No prior data science experience is required.

Pre-requisite: None

### **GPAD7321 HISTORY OF INTERNATIONAL RELATIONS**

This course connects history and international relations, and reviews the transformative moments in contemporary international relations. The subject matter includes civilization, war and peace, maritime and technological advances, but also extends further afield to history of colonization in Africa, Asia and the Americas. The course identifies transversal themes that bridge a dialogue between various temporal, cultural and social worlds. Students will approach major world-shaping dynamics, events and actors critically, and take issue with unequal power relations and Eurocentric knowledge production. The course covers key concepts in international relations history, and proposes theoretical tools for historically grounded international relations research.

Pre-requisite: None

### **GPAD7322 INTERNATIONAL RELATIONS OF THE ASIA-PACIFIC**

This comprehensive course offers an in-depth examination of one of the most dynamic and rapidly evolving regions in the world. Various parts of the Asia Pacific have witnessed

remarkable economic growth, increasingly sensitive security situations, and significantly increased involvement and influence in global affairs. This course thoroughly explores the interconnectedness of these realms, both from historical and contemporary perspectives, encompassing both intra- and inter-regional dimensions. This course places significant emphasis on the influence of historical factors, domestic political contexts, and international pressure in shaping the formulation and evolution of foreign policies, and their consequential impacts on the broader realm of Asia-Pacific international relations. While grounded in empirical analysis, it also provides students with a theoretical framework to comprehend the dynamics of the Asia Pacific region.

To examine these various dimensions, this course critically examines the influential forces shaping global affairs, with particular emphasis on their impact in the Asia Pacific. Meanwhile, a key focus of the course is to assess the potential for hegemonic competition among major actors such as the United States, China, and Japan within the evolving regional order. Furthermore, it examines the role of small and middle powers and regional organizations such as the Association of Southeast Asian Nations (ASEAN) in the development of regional strategic landscapes.

Pre-requisite: None

### **GPAD7323 INTERNATIONAL SECURITY**

This course offers an advanced examination of the scientific inquiry into international security, focusing on the causes of war and peace. Emphasizing a postgraduate-level understanding, we delve into the causes of interstate conflicts, moving beyond a mere overview. We critically analyze the multifaceted factors that influence states' decisions to pursue peaceful resolutions, encompassing diverse considerations such as regime type, economic interdependence, military alliances, and the role of international organizations.

The latter segment of the course explores the dynamics of intrastate conflicts and emerging threats to global security. We investigate phenomena like civil wars, coup d'état, and terrorist attacks, scrutinizing their implications within the broader context of international security. This course encourages students to engage in critical analysis, providing them with the necessary tools to comprehend and assess contemporary challenges that transcend traditional paradigms of conflict and peace.

Pre-requisite: None

### **GPAD7398 PROJECT REPORT**

The Project Report is an extended research essay to report findings of an individual research project. Students should undertake a systematic study into a topic in the scope of international relations, broadly defined. They should apply substantive knowledge and develop analytical skills, acquired from the Programme and beyond. They are required to define a central research question, design a proper analytical process, and develop a reasonable argument. The body of the report should be organized into sections in a logical way and follow the standard format and styles. It must be written in English.

Pre-requisite: None

### **GPAD7504 RESEARCH METHODS**

This course aims to introduce a variety of research methods to assist the students in designing feasible and theoretically sound research studies. The course consists of two parts: lecture and proposal presentation.

Pre-requisite: None

### **GPAD7505 ACADEMIC WRITING**

This course, intensive in its nature, introduces students to the basics of academic writing. Aspects of focus include style, structure, grammar and punctuation. The course will also allow learners to explore issues regarding process of writing.

Pre-requisite: None

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**GPAD7510 GLOBALIZATION AND EU'S FOREIGN DIRECT INVESTMENT**

It illustrates the growing importance of globalization and multinational enterprises in the world economy. The theories that explain the internationalization process of companies will be analyzed, as well as the evolving organizational structures according to the degree of multinationality of firms. The tendencies of multinational enterprises to enter into joint ventures and other collaborative agreements will also be studied. Special attention will be devoted to the outward direct investment of the EU.

Pre-requisite: None

**GPAD7514 EU AND SUSTAINABLE DEVELOPMENT**

The 'Lisbon Strategy' was the EU's response to globalization in the first decade of this century and it is succeeded by the 'Europe 2020' for the second decade. The course introduces the economic, social and environmental dimensions of this ten year plan and examines how this agenda addresses the structural problems and issues about the sustainable development of the EU.

Pre-requisite: None

**GPAD7520 EU AND THE WORLD III: THE REST OF THE WORLD**

It introduces the relations between EU and Africa and EU with the America. Europe has with Africa historical relations, from its colonial past. It is therefore a special relation with positive as well as negative outcomes. EU-African relations will be analyzed against the backdrop of recent developments of Africa in the international context, namely Africa-China relations and Europe reactions to the development of these relations. On the other hand EU has strong relations with some of the leading countries of South America, particularly those belonging to Mercosur. Region-to-region dialogue as well as bilateral relations will be analyzed. Lastly, the EU-US relations, is the corner stone, the most important single element of EU's external dimension. All implications of those relations from the bilateral perspective as well as multilateral implications will be covered, as well as the implications of this Atlantic connection to overall EU relations with the world in the various dimensions of the CSFP as well as CESDP.

Pre-requisite: None

**GPAD7521 PUBLIC POLICY AND POLITICS**

This is an introductory course in the theory and practice of public policy wherein the problems, agendas and formulation of policy formation will be discussed. It also examines several theories of public policy including theories of policy adoption and policy implementation. The course will conclude with discussions on topics such as policy impact, evaluation and change in public policy making.

Pre-requisite: None

**GPAD7522 GOVERNMENTS AND EU GOVERNANCE**

This course discusses the institutional dimension of the EU as a multilevel civilian political entity, while addressing the socio-economic dimension of multilevel governance after the Lisbon Treaty. It also allows students to have understandings in the institutional framework of the EU external relations as well as the EU global governance and the concepts of multilateralism.

Pre-requisite: None

**GPAD7523 SOCIAL POLICY AND EUROPEAN IDENTITY**

The course approaches the welfare states and social model in the EU from the legislation phases with respect to the relevant economic policies under Europe's democratic background and also introduces the concepts about European Identity. There are needs for the reform in the social policies regarding its sustainability while the EU is facing globalization and other social and economic problems.

Pre-requisite: None

**GPAD7524 HISTORY OF EUROPEAN INTEGRATION**

This course introduces students to the process of the construction of the European Union since



the end of the Second World War: it analyzes the essence of every stage in the integration processes; discusses the major driving forces and challenges in each stage, including socioeconomic, political, institutional and individual factors. In this course students should develop their abilities of theoretical and empirical analysis of processes and stages of the European integration. Through lectures and discussions, students should be able to distinguish between primary information and secondary one, to express one's own opinion clearly and support it with evidence and arguments. Students should also extend their knowledge by searching for relevant readings.

Pre-requisite: None

#### **GPAD7525 SEMINAR ON SELECTED TOPICS ABOUT EUROPEAN POLITICS, GOVERNANCE, SOCIAL OR PUBLIC POLICIES**

The integration process in Europe is an ever evolving and multi-dimensional one. This seminar provides flexibility for introducing the latest topics about EU's governance, politics social or public policies. The EU is facing several challenges and at times, conflicting socio-economic and political developments. Those issues need to be addressed with a complex conjunction of various policies from different angles that constitutes important features of the continuous process and progress of European integration.

Pre-requisite: None

#### **GPAD7526 INTRODUCTION TO MACROECONOMICS**

The course is composed of theoretical and factual contents. Its objective is to provide the students with the Microeconomic theories at intermediate level and it is combined with the historical background of the European Union, the rise of the integration and also a general picture about the European Union today. The core of the theoretical part falls onto the IS-LM as well as the AD-AS model while the students should understand how the economic policies function.

Pre-requisite: None

#### **GPAD7527 THEORY OF EUROPEAN INTEGRATION**

It presents the different stages of integration (from the customs union, free trade area, common market... to the economic union), problems and benefits, policies and the movement for the completion of a single market, supported by empirical studies and theories from both the political and economic point of view upon the dimensions of widening and deepening.

Pre-requisite: None

#### **GPAD7528 ECONOMIC POLICIES OF THE EU**

This course explains the economic policies for the internal market, the financing and institutional set-up of the policies, Agricultural Policy, Cohesion Policy (Structural Funds), and the structural reforms along with the dynamic integration process in Europe.

Pre-requisite: None

#### **GPAD7529 THE EUROPEAN MONETARY UNION IN THE WORLD CONTEXT**

The course includes an introduction about the European monetary unification in an historical perspective, the costs and benefits of a monetary union, the governance and the strategy of the European Central Bank, with the analysis of the enlargement process of both the European Union and the Eurozone. It also discusses the global role of the euro and the development of the single European capital market.

Pre-requisite: None

#### **GPAD7530 SEMINAR ON SELECTED TOPICS ABOUT EUROPEAN ECONOMY**

The seminar serves as a platform for students to understand and discuss the up-to-date topics and trends of EU's economic growth and models of development. It is especially important to notice the EU experiences a series of economic challenges like the sovereign debt crisis, recession, Brexit ... etc. Reforms and new strategies at both the Union and national levels are necessary to ensure the solidarity of the integration process in Europe. Technological

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innovation, smart and inclusive cities, infrastructure development and structural investment, are just some of the major issues that will be featured in the course.

Pre-requisite: None

#### **GPAD7531 EU LAW I: INSTITUTIONS AND TREATIES**

The course explains the legal foundation of the European Communities/Union, which is based on the treaties signed by the member states, and it introduces the decision-making procedures, roles and competences of the institutions, and especially the Commission, Council, Parliament, Court of Justice ... etc. in the process of construction of the European single market.

Pre-requisite: None

#### **GPAD7532 EU LAW II: FOUR FREEDOMS**

The course's rationale is to further the students' understanding about the EU internal market and the rules governing it with the focus on the four freedoms and the principles regulating free movement within the EU. It builds upon the foundation material in ECIEU taught earlier in the year and examines the substantive law of the ED. As such, the course provides combination of lectures on laws and rules regulating internal market followed by discussion. It also explains the free movement of goods, persons, services and capital and concludes with basic competition rules with reference to the case law.

Pre-requisite: None

#### **GPAD7533 SEMINAR ON SELECTED TOPICS IN THE LEGAL & INSTITUTIONAL ASPECTS OF THE EU**

The seminar leads the students into a discussion not just about the assessment and the reforms in the EU institutions after the 10 years of the post-Lisbon Treaty era but also the latest issues in the legal and institutional aspects as well as democracy and judicial matters at both the national and Union levels.

Pre-requisite: None

#### **GPAD7534 THEORY OF INTERNATIONAL RELATIONS**

By an overview of IR theories, the course aims to enable students to grasp the main themes of the theories that have been most influential in explaining world politics and, to some extent, to apply them in analyzing the reality of world affairs. This course examines traditions of key theories and approaches in the study of international relations, including classical realism and neo-realism; classical liberalism and neo-liberalism; the concept of international society; social constructivism and its application in IR; the relations between states and markets in world affairs (international political economy); the study of managing external relations and activities of nation states (foreign policy analysis).

Pre-requisite: None

#### **GPAD7535 EU AND THE WORLD I: THE NEIGHBOURHOOD**

The course introduces how the new members in the east joined the European Union and the relation between the former Communist countries as well as those in the Mediterranean region. It also presents the discussions for further enlargement of the EU.

Pre-requisite: None

#### **GPAD7536 EU AND THE WORLD II: EU-ASIA RELATIONS**

This course aims to introduce the complexities of EU-Asia relations, both, at the inter-regional level and at the bilateral level. It will focus on matters that will encompass the following Asian sub-regions: East Asia, Central Asia and South-Asia. Within East Asia, special attention will be given to China-EU relations, both from the historical point of view as well as the most recent developments, including bilateral negotiations towards a new Partnership and Cooperation Agreement (PCA). EU-Japan and EU-ASEAN relations will be given some attention, as well. The ASEM process (Asia Europe Meeting) will be introduced as a case of summit diplomacy with all its merits and limitations. In regard to Central-Asia, a brief analysis of Central-Asia significance in the context of Asia-Europe relations and the overall economic and security

concerns of EURASIA will be the focus of our attention. In the same token, EU-India relations will be briefly analyzed. Because the EU integration force is such an overall successful process, by bringing peace and development to the whole continent of Europe, it will attract other regions to also try the similar experiences. Regionalism in Asia is an on-going issues and it is worth comparing currents Asian trends with the case of the EU.

Pre-requisite: None

#### **GPAD7537 SEMINAR ON SELECTED TOPICS ABOUT EU'S COMMON FOREIGN & SECURITY POLICIES**

The seminar guides students into discussions after introducing the latest picture of the EU's latest development in its Common Foreign & Security Policies one decade after the establishment of the European External Action Service under the Lisbon Treaty and also its actions in response to the geopolitical challenges at the global level.

Pre-requisite: None

#### **GPAD7598 PROJECT REPORT**

The Project Report is an extended research paper/essay of either academic or policy nature to report findings of an individual research project, agreed with the supervisor and approved by the coordinator. Students are expected to undertake a systematic study into a topic or an issue, in the scope of European studies, broadly defined. They should apply substantive knowledge and develop analytical and presentation skills, acquired from the Programme and beyond into their individual research project. They are required to define a central research question, design a proper analytical process, and develop a reasonable argument.

Pre-requisite: None

#### **GPAD8000 SELECTED TOPICS IN PUBLIC ADMINISTRATION**

In this course, students will engage with high-level readings of primary sources for exploration of various topics related to the public administration. Exploration of topics is annually determined and involves issues not covered by the standard curriculum but of interest to faculty and students in a particular semester.

Pre-requisite: None

#### **GPAD8099 DOCTORAL THESIS**

Writing the doctoral thesis is the advanced stage of doctoral studies. The candidates should first select a topic in the field of public administration, with consultation of their supervisors. They should, based on extensive literature review, engage vigorously in construction for a suitable theoretical and analytical framework and then apply it to the analysis of empirical issues. The thesis needs to develop a cohesive structure, a sound research question, a central argument, and a rich set of data to support the comprehensive discussion. The writing style and standards must strictly follow the UM regulations.

Pre-requisite: None

#### **GPAD8100 SELECTED TOPICS IN POLITICAL SCIENCE**

This course will be designed according to students' specific areas of research interest. Students will be required to get familiar with and have an in-depth understanding of the existing literature and research achievements in the field. Students will then be asked to explore the feasibility to make new scholarly contribution in the field of their particular interest.

Pre-requisite: None

#### **GPAD8199 DOCTORAL THESIS**

Writing the doctoral thesis is the advanced stage of doctoral studies. The candidates should first select a topic in the field of political science, with consultation of their supervisors. They should, based on extensive literature review, engage vigorously in construction for a suitable theoretical and analytical framework and then apply it to the analysis of empirical issues. The thesis needs to develop a cohesive structure, a sound research question, a central argument, and a rich set of data to support the comprehensive discussion. The writing style and standards

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must strictly follow the UM regulations.

Pre-requisite: None

### **PSYC1000 GENERAL PSYCHOLOGY**

This is a foundation course offering an introductory survey of the various areas of psychology from the perspective of psychology as the scientific study of behaviour. The course explores the major theories, methods, and research findings in such topics as personality, life-span development, social relations, as well as the biological bases of behaviour. The focus will be on relationship between research results and their applications to daily life.

Pre-requisite: None

### **PSYC1001 PSYCHOLOGY STATISTICS I**

This course provides the fundamental skills and knowledge needed to understand and use statistical procedures in basic psychological research. Topics cover basic descriptive and inferential statistics, including measures of central tendency and variability, probability, sampling, the normal distribution, hypothesis testing and statistical power, t-tests for means, analysis of variance, correlation and simple linear regression. Activities will include the use of statistical software packages to explore data and conduct an analysis.

Pre-requisite: None

### **PSYC2000 DEVELOPMENTAL PSYCHOLOGY**

In this course, students examine theories of human development across the life cycle of the individual from birth to death, in different domains including physical, cognitive, and social and personality. Research methods for studying developmental processes, as well as various issues related to the processes and challenges of developmental transitions in different life periods within a local context are discussed.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC2001 SENSATION AND PERCEPTION**

In this course, students will study the sensory process in acquiring information and how the information is understood and interpreted in our brains resulting in various perceptual experiences. Various sensory systems will be introduced with a primary emphasis on the visual system.

Pre-requisite: None

### **PSYC2002 HUMAN LEARNING AND COGNITION**

This course introduces the theoretical and empirical research of cognitive processes. The course covers the fundamental concepts and theories of thinking and levels of mental processes of how human mind works (and fails to work) such as how we perceive, attend, remember (or forget), think and reason.

Pre-requisite: None

### **PSYC2003 SOCIAL PSYCHOLOGY**

This course examines how people think, feel, and behave when they are in the actual or imagined presence of others. The course covers classical and contemporary topics in social psychology, including perceptions of the self in relation to others, attitudes, social cognition, and the interpersonal dynamics of social behaviours, such as attraction, persuasion, and conformity. Instruction may also include the application of social principles and research to various settings.

Pre-requisite: None

### **PSYC2004 PERSONALITY PSYCHOLOGY**

In this course, students encounter the major theories and theorists that historically shaped the psychological understanding of personality. The focus is on different questions, units of analysis, assumptions about causes of behaviour, and approaches to personality change proposed by theories of personality. Students engage in examining the underlying assumptions, conceptual

issues, and motivation of human behaviour based on contemporary research regarding human nature and personality.

Pre-requisite: None

### **PSYC2005 PSYCHOLOGY STATISTICS II**

This course covers advanced statistical methods and procedures commonly used in experimental and non-experimental research in psychology. Topics include multiple regression and, at more advanced levels, mediating effect, interaction effect, factor analysis, path analysis, structural equation modeling, and hierarchical linear modeling. This course focuses on the application of these and other analytical procedures especially in non-experimental research.

Pre-requisite: PSYC1001

### **PSYC2006 CLOSE RELATIONSHIPS**

Close relationships are central to our lives; friends, parents, siblings, romantic partners, social networks, and acquaintances, have an enormous influence on our thoughts, feelings and behavior. The purpose of this course is to help students understand the processes that regulate human social relationships, through the lens of psychological method. It will include an overview of the social-psychological theories of relationships research and an exploration of the current literature. Specifically, this course will focus on topics such as: our need for relationships, interpersonal attraction, intimacy, love, attachment, communication, relationship maintenance, sexuality, relationship trajectories, relationship dissolution, jealousy, and extra-dyadic relationships.

Pre-requisite: None

### **PSYC3000 ABNORMAL PSYCHOLOGY**

Abnormal Psychology introduces students to the scientific study of psychological disorders and dysfunctional behaviour. While the course surveys a broad selection of disorders, it focuses on the contributing factors, clinical presentation, and treatment implications of these selected disorders. At the same time, students will explore how biological, psychological, social and multicultural dimensions interact to cause a particular disorder.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3001 CULTURAL PSYCHOLOGY**

The course examines the relationship between individual psychological functioning and cultural contexts, both from a theoretical and practical/research point of view. The focus is on cross-cultural comparisons of behaviour, cognition, self, attribution, reasoning, decision making, communication, emotion, motivation, socialization, and more, with the aim of raising awareness and understanding of human commonality and diversity.

Pre-requisite: PSYC2003

### **PSYC3002 RESEARCH METHODS**

This course presents the concepts of scientific inquiry and the methods used by psychologists to investigate human behavior and individual differences. It covers basic concepts and procedures across the research process, including reliability and validity, and instrument development and validation (measurement), experimental designs, sampling and surveys, as well as qualitative methods (research design), and the application of analytical tools in testing hypotheses and research questions (data analysis). This course focuses on the quantitative methodological approach. Students are expected to understand the process of quantitative research and be able to conduct their own studies using some of the necessary methods and approaches.

Pre-requisite: PSYC1001

### **PSYC3003 PSYCHOLOGY OF ADDICTION**

The main objective of this course is to understand addictive behaviour and its paradoxes using fundamental psychological concepts and focusing on the psychological causes of excessive behavioural patterns such as drug dependence, gambling disorder, and Internet addiction.

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Addictive behaviours and behavioural change are examined from different perspectives such as personality, social, and cognitive psychology, as well as the growing body of knowledge in the field, including assessment, treatment, and prevention strategies.

Pre-requisites: GESB1010 / PSYC1000

### **PSYC3004 PHYSIOLOGICAL PSYCHOLOGY**

This course focuses on introducing the fundamental principles of brain structures and their associated functions, and the physiological basis of behaviour. Topics include anatomy and physiology of the nervous system, genetic influences on behaviour, the physiological bases of emotional behaviour (e.g., anxiety & stress), and the study of psychological disorders (e.g., alcoholism, drug abuse, & depression).

Pre-requisite: None

### **PSYC3006 COGNITIVE NEUROSCIENCE**

The course provides a basic understanding of brain structure and function, brain trauma and disease, and plasticity. The methodologies utilized to study brain-behaviour relationships are reviewed, and an appreciation of the role of clinical perspectives is provided.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3008 PSYCHOLOGY OF LEADERSHIP**

This course examines how leadership is defined and how views of leadership have changed over time. Psychological contributions to understanding leadership form the main basis of the course, including topics such as the types of power, personal characteristics, interpersonal interactions, hierarchical relationships, and others. Readings and discussions address the question of how people become leaders, how environmental circumstances can encourage or inhibit potential leaders, and the various personal qualities needed to be a successful leader.

Pre-requisites: None

### **PSYC3009 CONSUMER PSYCHOLOGY**

This course explores how consumer think, feel and act. We will focus on applying theories in social psychology, cognitive psychology and assessment in consumer decision making processes. Topics include attitude formation and change, consumer information processing, decision processes, assessment of cultural and individual differences etc.

Pre-requisite: GESB1010 / PSYC1000 / PSYC2003

### **PSYC3013 EVOLUTION, HUMAN NATURE AND BEHAVIOUR**

Whereas it is well accepted in biology that human bodies are products of natural selection, it is still controversial in the mainstream social sciences to link human behaviours to evolution. This course takes an evolutionary approach to explore the ultimate question of why, but not just how, human beings behave in the ways in which they do. Broadly covered by evolutionary cognitive, social, and developmental psychology, the topics include how the human mind works and why it works in these ways, how and why human beings negotiate social contracts with conspecies, and how and why related individuals love and hate in resolving family conflict of interest. In addition to the coverage of evolutionary psychological concepts, theoretical perspectives, and empirical findings, this course also introduces natural selection, sexual selection, kin selection, reciprocal altruism, life history, and other theoretical foundations of evolution and their applications to the study of human behaviours.

Pre-requisite: None

### **PSYC3014 HEALTH AND BEHAVIOUR**

This course studies how psychology improves our understanding of health and illness. We will particularly discuss the biopsychosocial model of health and illness, which highlights the interplay among psychosocial factors, physiological processes, and behavioral pattern involved in health and illness. We will examine the contribution of this biopsychosocial model to the understanding of: a) health promotion and illness prevention, b) responses to an illness and its recovery, and c) coping with chronic diseases. In each domain, we will discuss the basic

concepts, explanatory theories, research methods, and interventions developed or adopted by health psychologists. Application of the knowledge to improving individual or public health in the local context is emphasized.

Pre-requisite: None

### **PSYC3016 PSYCHOLOGY OF LEARNING AND MOTIVATION**

This course offers an overview of different theories and empirical research on learning and motivation from diverse perspective and approaches (behaviorist, biological, evolutionary, cognitive, cross-cultural, etc.). Current research of learning and motivation, and their applications in applied settings will also be discussed (e.g., achievement motivation in educational settings).

Pre-requisite: None

### **PSYC3017 SELECTED TOPICS I**

Intensive focus concerning a selected topic of contemporary interest in psychology forms the basis for this course. The course can also include extensive fieldwork experience and may require additional hours of practical work at a selected site in the local community. Topics change with the interests and speciality of the faculty and the content varies from semester to semester. The instructor will select a topic or area of interest for discussion based on current developments in psychology and her or his expertise.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3018 SELECTED TOPICS II**

Intensive focus is given to a selected topic of contemporary interest in psychology. The course can also include extensive fieldwork experience and may require additional hours of practical work at a selected site in the local community. Topics change with the interests and speciality of the faculty and the content varies from semester to semester. The instructor will select a topic or area of interest for discussion based on current developments in psychology and her or his expertise.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3020 COGNITIVE DEVELOPMENT**

In this course, emphasis will be on the research findings from the study of cognitive development, particularly the development of thinking in the first decade of life. We will examine children's understanding of the physical world, psychological kinds, biological entities, number, objects, and space. Topics to be explored include theories in cognitive development, neural development, language development, conceptual development, social cognition, and academic achievements in reading and mathematics.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3021 EXPERIMENTAL PSYCHOLOGY**

Experimentation is one of the major methods in psychology (it is a way of gathering new knowledge). This course introduces the essential features of this method, with reference to general concepts related to scientific knowledge, psychological research questions, and statistical analysis/inference. These general concepts will be illustrated with the help of examples from six different topics of research: These include the experimental studies of (1) goals (2) honesty/dishonesty, (3) rule-following and rule-violation (4) sense of control (5) free choice and forced choice, and (6) daydreaming. We will discuss instances in which the experimental method is a good choice and instances where it might not be appropriate.

Pre-requisite: GESB1010 / PSYC1000

### **PSYC3022 PSYCHOLOGY OF TESTING**

This course is a survey of psychological testing through an overview of measurement principles, the psychological assessment process, test construction and development, reliability and validity, and the use of test results in individual psychological evaluation. Examples relevant to clinical psychology (e.g., personality, mental disorders) and school psychology (e.g., ability,

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aptitude, learning, etc.) are given.

Pre-requisite: PSYC1000 and PSYC1001 / GESB1010

### **PSYC4000 GRADUATION PROJECT**

Students will gain practical experience in applying psychological knowledge and research skills learnt. Emphasis will be put on enhancing skills in conducting literature review and designing research studies. "Students are expected to participate in a group research project, which can be an empirical study, a systematic review, or other kind of research projects.

Pre-requisite: PSYC3002

### **PSYC4001 RESEARCH PROJECT I**

This course allows promising students carrying out an independent psychological research under the supervision of a psychology faculty member. It engages the student in practical experience conducting psychological research from the proposal to writing up the thesis. With the support of the thesis mentor, a student may start working on an honors thesis in year 3.

Pre-requisites: PSYC3002

### **PSYC4002 RESEARCH PROJECT II**

A continuation of Research Project I

Pre-requisite: PSYC4001

### **PSYC4003 FIELD EXPERIENCE I**

This course includes supervised field work/internship experiences in different work settings or counseling settings pertinent to formal academic training in applied psychology or counselling psychology. Students' performance in the Field Experience will be evaluated by the individual supervising faculty member and students' immediate supervisor in the work settings. In addition to learning how to apply psychological concepts with clinical populations, the field experience course provides students the opportunity to conduct supervised applied field research, to apply their analytic skills toward investigating ways to evaluate community health programmes and gather data to improve local services.

Pre-requisite: None

### **PSYC4004 FIELD EXPERIENCE II**

This course includes supervised field work/internship experiences in different work settings or counseling settings pertinent to formal academic training in applied psychology or counselling psychology. Students' performance in the Field Experience will be evaluated by the individual supervising faculty member and students' immediate supervisor in the work settings. In addition to learning how to apply psychological concepts with clinical populations, the field experience course provides students the opportunity to conduct supervised applied field research, to apply their analytic skills toward investigating ways to evaluate community health programmes and gather data to improve local services.

Pre-requisite: None

### **PSYC4005 CLINICAL PSYCHOLOGY**

This course introduces students to the specialization of clinical and counselling psychology. It covers the basic theoretical assumptions when understanding and treating pathological behaviours; spectrum of subfields and their prospects; and paradigms and implications in clinical and counselling psychology as a profession.

Pre-requisites: GESB1010 / PSYC1000

### **PSYC4006 ORGANIZATIONAL PSYCHOLOGY**

This course examines human behavior in organizations based on classical organizational theory and contemporary empirical research at the micro (individual, interpersonal, and group) and macro (organizational/environmental) levels. Theoretical bases include the principles of scientific management, the human relations movement, and organizations as systems. Empirical and applied foci will be on traditional organizational psychology topics, such as



motivation, groups as teams, leadership, decision-making, and organizational socialization, as well as organizational analysis and change.

Pre-requisites: None

#### **PSYC4007 GLOBAL MENTAL HEALTH**

Global mental health is an emerging transdisciplinary scientific field. It utilizes approaches from multiple fields including psychology, anthropology, sociology, medicine, public health and epidemiology. Students in this course will explore 1) public health and global health approaches to the treatment and prevention of ill mental health, substance abuse and neurological disorders, 2) the role of culture in mental illness and its definitions, 3) epidemiological approaches to study and measure the prevalence and incidence of mental health globally, 4) public policy implications for ill mental health, and 5) mental health systems. Readings in the course will focus on peer-reviewed research literature. A particular emphasis will be placed on research and case examples from Asian country contexts (e.g., East and South East Asia), including Macao and Mainland China, so the course will have particular local and regional relevance to students.

Pre-requisite: None

#### **PSYC4008 INTELLIGENCE AND CREATIVITY**

This course provides an overview of emerging concepts of intelligence, intelligence development and creativity from biological, cognitive and methodological approaches. Contemporary models of intelligences and creativity are introduced and compared. Practical implications of the theories and findings in applied settings such as education, workplace and interpersonal relationships are discussed.

Pre-requisite: None

#### **PSYC4012 SOCIAL COGNITION**

This course provides an introduction to research and theories in social cognition. The course will examine how people reason and make sense of the social world. Specifically, topics examined in the course include the dual processing model, social perception and impression formation, mental representation and memory, the self, attribution, heuristics, attitudes and persuasion, stereotyping, etc.

Pre-requisite: PSYC2003

#### **PSYC4015 GREAT IDEAS IN PSYCHOLOGY**

Psychology is a heterogeneous discipline with diverse historical roots. In this course, we will cover some of the major ideas, thinkers, movements in the discipline of Psychology with particular focus on ideas that have had a largescale impact on the discipline and society. The goal of this course is to enrich our perspective with regard to psychology's history, its current state and its possible futures. Course content is organized around 6 topics: How to think about psychological research methodology (how psychologists support their claims), what is behaviour, what is a person, what are goals, what are games, and what is meaning? In discussing these central topic, we will meet some of the greatest thinkers that have contributed to the discipline.

Pre-requisite: GESB1010 / PSYC1000

#### **PSYC4017 ADVANCES IN PSYCHOLOGICAL SCIENCE**

This is an advanced course devoted to current development and advancement of one or more than one area of psychology. The content coverage is expected to change from time to time and should not represent fixed textbook material but focus on the recent development in psychology at the time of offering. Attending to the feature of new and recent advancement in psychology, an offering of this course may focus on depth by going into details of a narrow topic area or may focus on breadth by covering many aspects and related issues forming a broader area of research.

Pre-requisite: GESB1010 / PSYC1000

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**PSYC4018 ISSUES IN APPLIED PSYCHOLOGY**

This course provides an analysis of current or controversial cutting-edge topics in applied psychological science. Students will engage with readings from primary sources for exploration of various topics of relevance to local and global issues in applied psychology. The readings will vary from year to year depending on the expertise of specialist staff and the needs for advanced study of psychology.

Pre-requisite: GESB1010 / PSYC1000

**PSYC7001 ETHNICAL ISSUES IN PSYCHOLOGY**

The course focuses on issues related to professional development and ethical practice, particularly as they apply to the practice of clinical psychology. The professional development component underscores the importance of self-care and post-qualification learning throughout one's career to maintain competence. Ethical issues with regard to case reports, legal procedures, and mental health care in a gambling and addiction dominated society, etc. will be discussed in seminar format in order to develop candidates' ethical acculturation in the field of psychology.

Pre-requisite: None

**PSYC7006 PSYCHOPHARMACOLOGY**

General principles of psychopharmacology, an overview of neurochemistry and understanding of the use of psychoactive drugs are discussed. The focus is on the use of psychopharmacological agents in psychotherapy and their phenomenology.

Pre-requisite: None

**PSYC7007 PSYCHOTHERAPY: HUMANISTIC THERAPY**

In this course, the development, principles, conceptual models, applications and limitations of major humanistic counseling and therapy approaches are investigated for working with people in contexts of individual and group interventions. Current research and case conceptualization models from humanistic and person-centered therapy perspectives will be discussed. The lab segment of this course focuses on foundational principles, processes, and skills involved in working with clients from a humanistic, person-centered perspective. Candidates will participate in class format training that is skill-based, interactive and focused on experiential learning.

Pre-requisite: None

**PSYC7008 PSYCHOTHERAPY: COGNITIVE-BEHAVIORAL THERAPY**

In this course, the development, principles, conceptual models, applications and limitations of behavioral and cognitive behavior therapies are investigated for working with various age groups and specialized clinical populations. Current research and related case conceptualization models will be discussed. The lab segment of this course focuses on an orientation to the principles, processes and practice of cognitive behavioral therapy psychological intervention as related to particular client groups such as children, adolescents, adults and those with particular disorders. Candidates will participate in class format training that is skill-based, interactive and focused on experiential learning.

Pre-requisite: None

**PSYC7009 PSYCHOTHERAPY: FAMILY THERAPY**

In this course, the development, principles, conceptual models, applications and limitations of major psychotherapy theories are investigated for working with families. Current research and related case conceptualization models will be discussed. The lab segment of this course focuses on an orientation to the principles, processes and practice of psychological intervention as related to working with families. Candidates will participate in class format training that is skill-based, interactive and focused on experiential learning.

Pre-requisite: None

**PSYC7010 PSYCHOTHERAPY: PSYCHOANALYSIS THERAPY**

In this course, the development, principles, conceptual models, applications and limitations of psychoanalysis and psychodynamic psychotherapy intervention will be covered in addition to their application in working with various client populations. Current research and related case conceptualization models will be discussed. The lab segment of this course focuses on an orientation to the principles, processes and practice of these treatments to varied groups. Candidates will participate in class format training that is skill-based, interactive and focused on experiential learning.

Pre-requisite: None

**PSYC7701 PSYCHOLOGICAL ASSESSMENT: NEUROPSYCHOLOGY**

This course introduces students at the master level to the principles and practice of psychological and neuropsychological assessment, covering childhood and adulthood. Current trends in the theoretical understanding of personality, psychopathology and cognitive ability will provide the conceptual basis assessment practice. The assessments will be understood through all aspects of the clinical encounter which lead to diagnostic case formulation. In particular, this course will address the application of techniques derived from psychological science to enhance correct classification of psychological conditions.

Pre-requisite: None

**PSYC7702 PSYCHOLOGICAL ASSESSMENT: COGNITIVE ABILITIES**

The course explores the theory and techniques of assessment for intervention purposes including the administration, scoring, and understanding of cognitive and intellectual psychological tests, interview-based assessments of mental status, and other achievement and special assessment tools. Research, ethics, and clinical implications of cognitive and achievement assessment will be covered, as well as writing appropriate reports. Practical experience administering instruments will be done under supervision.

Pre-requisite: None

**PSYC7703 PSYCHOLOGICAL ASSESSMENT: PERSONALITY/EMOTION**

The course examines theory and techniques of assessment for intervention purposes as well as the administration, scoring, and understanding of major personality instruments in clinical practice. Related interview-based assessments (e.g., intake, clinical history, diagnostic interviews) will also be considered. Research, ethics and clinical implications of assessing symptomatic behaviours, personality patterns and clinical issues will be presented including objective and projective techniques. The practice of evaluation strategies will be conducted under supervision. Candidates will be guided in the selection of instruments appropriate for personality/diagnostic assessment and report writing based on the integration of varied assessment data.

Pre-requisite: None

**PSYC7704 RESEARCH METHODS IN PSYCHOLOGY**

This course trains students to conduct and consume research in psychology. The training includes basic methodology and statistics involved in experimental and correlational research. Analysis of variance (ANOVA) as the analytical tool and experimental design as the methodological architecture for conducting experiment and quasi-experiment will be introduced. Correlation and regression will be introduced as the main analytical framework for non-experimental or correlational research together with discussions on methodological and research validity issues involved in correlational studies.

Pre-requisite: None

**PSYC7705 PSYCHOPATHOLOGY**

The course involves an investigation of dysfunctional behaviour in children and adults including a discussion of contexts. Candidates are trained towards an understanding of human actions that exceed the boundaries of culturally and socially accepted behaviour. Behaviours usually defined as normal/abnormal are critically discussed and studied from various paradigms, as

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well as the genetic and neurological processes will be examined. The focus of the course will be on the DSM and ICD.

Pre-requisite: None

### **PSYC7706 NEUROPSYCHOLOGY**

This course aims to provide a general introduction to the theory and practice of clinical neuropsychology. The course focuses on neurological disorders (e.g., dementia, epilepsy, and traumatic brain injury), neuropsychological disorders (e.g., aphasia, amnesia), psychiatric disorders (e.g., depression) and behavioural syndromes (e.g., autism). The content will be taught through the following parts: (1) advanced issues in neuropsychological testing in professional settings; (2) principles of clinical interaction, including interviewing and history-taking; (3) diagnostic formulation; and (4) report writing.

Pre-requisite: None

### **PSYC7707 HEALTH PSYCHOLOGY**

The course provides an overview of major content areas in health psychology including stress and coping, principles of positive psychology, health and wellness of the person in context, and psychological influences on chronic illnesses. Consideration of cross-cultural psychology and critical perspectives such as systems theory and issues related to minorities in the community are also considered. Candidates will learn to develop, implement, and evaluate individual, group and societal intervention programs (e.g., life skills programs), and program evaluation for primary preventive interventions within a variety of contexts.

Pre-requisite: None

### **PSYC7709 SELECTED TOPICS IN HUMAN DEVELOPMENT AND MENTAL HEALTH**

This advanced course will provide in-depth coverage on a specialized content area related to clinical psychology and mental health. Students will gain knowledge about associated theory, research, current assessment and intervention approaches as well as information on relevance to practice within the context of Macao. Topics will vary depending on staff expertise and availability.

Pre-requisite: None

### **PSYC7710 ADVANCES AND TRENDS IN CLINICAL PSYCHOLOGY**

The aim of this course is to inform students of the state of the art of a particular area of psychological knowledge, research, and development that is related to the clinical and counseling profession. Some of the areas include neuro-cognitive approach and techniques (e.g., brain imaging and neuro network analysis) of mental health and treatment, evolutionary psychology and psychopathology and adaptation and fitness views about human health and development, cultural and cross-cultural perspectives on the theories and practice related to the counseling and clinical profession, and other areas of scientific development in psychology. The course will focus on in-depth analysis and evaluation of the issues, advances, and trends of the development at the time of an area of psychology.

Pre-requisite: None

### **PSYC7711 CLINICAL PRACTICUM & SUPERVISION I**

Clinical Practicum is a supervised field placement in an approved training site for clinical practice and learning. Performances and professional development will be monitored and evaluated. The minimum number of hours to document for this field placement is 334 hours. Candidates will participate in weekly individual and group supervision as scheduled for case consultation and professional development.

Pre-requisite: None

### **PSYC7712 CLINICAL PRACTICUM & SUPERVISION II**

Clinical Practicum II is a supervised field placement in an approved training site for clinical practice and learning. Performances and professional development will be monitored and evaluated. The minimum number of hours to document for this field placement is 334 hours.

Candidates will participate in weekly individual and group supervision as scheduled for case consultation and professional development.

Pre-requisite: None

### **PSYC7713 CLINICAL PRACTICUM & SUPERVISION III**

Clinical Practicum III is a supervised field placement in an approved training site for clinical practice and learning. Performances and professional development will be monitored and evaluated. The minimum number of hours to document for this field placement is 334 hours. Candidates will participate in weekly individual and group supervision as scheduled for case consultation and professional development.

Pre-requisite: None

### **PSYC8805 ADVANCED TOPICS IN PSYCHOLOGICAL RESEARCH METHODS**

In this course, students will engage in the nature of inquiry in psychological sciences and explore different epistemological perspectives and related methodological issues in psychology research. The course covers various advanced topics related to psychological science and research in applied contexts (e.g., business/industry, education, community, policy, health, national development, etc.), professional practice (e.g., clinical, counselling, school, etc.), and cultural settings.

Pre-requisite: None

### **PSYC8810 SEMINAR IN PSYCHOLOGICAL SCIENCES**

In this seminar-based course, students will engage with high-level readings of primary sources for exploration of various topics related to the psychological sciences. The readings will vary from year to year depending on the expertise of specialist staff and the needs for advanced study of psychology.

Pre-requisite: None

### **PSYC8811 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY**

In this seminar-based course, students will engage with high-level readings from primary sources for exploration of various topics related to personality and social psychology, with an emphasis on the cultural dimensions of personality and social psychological phenomena and research. The readings will vary from year to year depending on the expertise of specialist staff and the needs for advanced study in the area of personality and social psychology.

Pre-requisite: None

### **PSYC8812 SEMINAR IN APPLIED PSYCHOLOGY**

In this seminar-based course, students will engage with high-level readings from primary sources for exploration of various topics of relevance to local and global issues in applied psychology. The readings will vary from year to year depending on the expertise of specialist staff and the needs for advanced study of psychology.

Pre-requisite: None

### **PSYC8813 SEMINAR IN SELECTED TOPICS IN PSYCHOLOGY**

In this seminar-based course, students will engage with high-level readings from primary sources for exploration of selected topics related to psychology but not covered in other Seminar courses, such as topics on the latest trends in psychology, issues currently under debate, or new paradigms and approaches recently proposed.

Pre-requisite: None

### **SOCY1000 INTRODUCTION TO SOCIOLOGY**

This course is designed to study how society works, (e.g. culture, groups and societies), why it works that way (e.g. socialization, social interaction, conflict theory, functionalism), in what way we are all affected (e.g. gender, race, class, deviance), and in what way we can change society (e.g. social movements). By the end of the course, students should understand society better and their relation to it more clearly.

Pre-requisite: None

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### **SOCY1001    READING SOCIOLOGY**

This course aims to inculcate students with the basic reading skills that are necessary for understanding sociological literature, and in this way to acquaint students with the distinctive approach of sociology as an academic discipline and a way of seeing. Foundational concepts such as culture and social interaction are introduced by way of intensively reading elementary and classic texts. By the time the students finish this course, they should be able to read and analyze sociological texts with a reasonable level of language proficiency and intellectual literacy.

Pre-requisite: Sociology majors only

### **SOCY1002    INTRODUCTION TO ANTHROPOLOGY**

Anthropology is the study of the human species in all its aspects: biological, social and cultural; behavioral and psychological; spiritual and symbolic; historic, environmental and material. This course concentrates on the multiple dimensions of cultural anthropology, or what it means to be human, through an examination of different cultures, topics and case studies taken from around the world. Goals of the course include appreciation of the variety and range of human achievement, the understanding of change and progress, and the imagination of alternative possibilities for much of what we take for granted in everyday life.

Pre-requisite: None

### **SOCY1003    SOCIAL RESEARCH METHODS**

This course introduces to students some of the basic concepts and practices of social research as adopted and codified by social sciences in general and sociology in particular. Comprehensive treatment of major research methods, including survey, in-depth interview, ethnography, and comparative-historical method, will be offered. The logic of social research will also be discussed, with the purpose of clarifying fundamental issues such as the nature of causality and correlation, the criterion and procedure of scientific falsification, etc. Methodological problems in the broad sense, such as the distinction among positivist, interpretive and critical approaches to social reality, will be covered as well.

Pre-requisite: Sociology majors only

### **SOCY2000    SOCIOLOGICAL THEORY**

This course introduces and familiarizes sociology students with the major theoretical paradigms as they have emerged and evolved in the classical foundation and contemporary development of the discipline. Accordingly the course is intended to be at once analytical and historical, examining the shifting contexts within which various concepts and approaches have been formulated. We will focus on four sociological traditions, namely, rational choice, class analysis, institutional analysis, and symbolic interactionism. The course will also highlight the relevance and applicability of these perspectives to real social life.

Pre-requisite: None

### **SOCY2001    SOCIAL STATISTICS**

The primary purpose of this course is to provide students with the basic skills and understanding to conduct data analysis in social research. It aims to equip students with the statistical techniques used most commonly by social scientists. In addition, students are also instructed on the relationship between social theory and empirical analysis. At the end of the course, students should be able to understand research reports in social science publications and in the mass media, and should also be able to evaluate the accuracy and adequacy of the conclusions reached.

Pre-requisite: SOCY1003 Social Research Methods

### **SOCY2002    POLITICAL SOCIOLOGY**

This course examines major theoretical questions about power, politics, and the state from a sociological perspective. We will explore the dynamics of political institutions and processes, on the basis of which issues concerning state formation and nationalism, social movements,

globalization, political culture and participation, and civil society etc. will be discussed.

Pre-requisite: None

### **SOCY2003 SOCIAL STRATIFICATION AND INEQUALITY**

This course overviews the major sociological approaches to the study of social stratification and inequality. We begin with an examination of the concepts of social stratification and social inequality, with an emphasis on the major dimensions of stratification including caste, class, gender, and ethnicity. The consequences of stratification on life chances and life style and on social mobility will be explored. The empirical relevance of these issues to the changing stratification system of Macao will also be addressed.

Pre-requisite: None

### **SOCY2005 QUALITATIVE SOCIAL RESEARCH METHODS**

This course is designed to introduce students to the principles and methods of qualitative research. It aims to guide students to appreciate the value of qualitative research as well as to get a practical grasp of a variety of qualitative research strategies and techniques. We will examine some of the main methods used by qualitative researchers in social sciences and in particular sociology such as participant observation, interviewing, documentary research, and content analysis etc. Our examination will consist of both readings and actual practice. The purpose is not only to understand the comparative strengths and weaknesses of each method but also to gain experience using them.

Pre-requisite: SOCY1003 Social Research Methods

### **SOCY2006 SOCIOLOGY OF DEVIANCE**

We will study how and why certain behaviors are considered dangerous enough to deserve negative sanctions, how deviant careers are socially constructed, and how deviants and conventional society cope with each other. In addition to theories, we will study criminal behavior, drug use, heterosexual and homosexual deviance, physical deviance such as body piercing and tattooing, religious deviance, and mental disorders, etc.

Pre-requisite: None

### **SOCY2007 SOCIOLOGY OF GAMING**

This course will cover topics related to gaming and society. We will examine briefly the history of the gaming industry in leading casino cities, and the social consequences generated by it. This course will focus on four tendencies in the development of the gaming industry: legalization, popularization, entertainment, and modernization. The development of Macao's casino industry and the challenges it faces will be emphasized.

Pre-requisite: None

### **SOCY2008 ENVIRONMENT AND SOCIETY**

This course addresses the complex and often problematic relationships and connections between humans and natural and built environments by examining how cultures and societies construct knowledge about nature and attribute value to it, how they use or abuse environments and resources, and how human activity, culture and social organization have always been deeply linked to the natural, material world. It also examines how factors such as gender, race, class, ethnicity, and cultural/historical experience influence the ways people perceive, understand, interact with, and are affected by the environments in which they live.

Pre-requisite: None

### **SOCY2009 THEORY IN ANTHROPOLOGY**

This course examines why theory matters and how and why anthropological theories have influenced and been influenced by empirical studies of human communities and on-going debates about culture. We will discover why theory in anthropology has often been contentious, controversial, and marked by many productive disagreements and varieties of approach. The goals are to foster critical understanding of the aims and scope of any theory by examining, in historical context, the ideas of some of the discipline's most influential thinkers and evaluating

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their continued relevance to contemporary research.

Pre-requisite: None

### **SOCY2010 INTRODUCTION TO CRIMINOLOGY**

The purpose of this course is to familiarize students with the major issues in the field of criminology, i.e., various approaches to criminology, concepts of crime and law, theories of crime causation, types of crime, and the criminal justice system. In other words, we are studying the what, why and how of crime and justice. The course is characterized by class discussions, presentations, mini-lectures, guest lectures, field trips, videos, and a major research project

Pre-requisite: None

### **SOCY2011 SOCIOLOGY OF ADDICTIVE BEHAVIOR**

This course will focus on several major types of addictive behaviour, including substance abuse, gambling addiction, Internet addiction, and video addiction. In each of these domains, we will discuss (1) the nature and distribution of the addictive behaviours; (2) the causes of the behaviours; (3) the psychological and social consequences of the behaviours; (4) the prevention and treatment of the addictive behaviours. Special focuses will be given to drug abuse and treatment in the greater China region, especially Macao and mainland China.

Pre-requisite: None

### **SOCY2014 CHINESE SOCIETY**

The course is structured not as an historical chronology but rather as a thematic discussion of some of the major issues in contemporary China. We will explore the basic institutional make-up of Chinese society, the structural changes brought forth in the reform era, and the impacts on the daily existence of the people therein. It is expected that after taking the course, students would not just know, but could also make sense of, what is going on in Chinese society today.

Pre-requisite: None

### **SOCY2015 POLICING**

This course aims to provide students with a criminological understanding of police and policing in a historical and comparative perspective. Up completion of the course, students will be able to master key concepts and theories of policing; critically analyze various issues and controversies on contemporary policing; understand social structural factors in shaping police practice in a given country; locate a local police issue in a historical and global context; and understand future development of policing.

Pre-requisite: None

### **SOCY2016 CULTURAL SOCIOLOGY**

Culture is one of the most complicated terms in the human vocabulary. It refers to particular cultural products and formats, such as arts, music, and literature, as well as the meanings, symbols, ideas, and habits that make us who we are. To familiarize students with the field, this course will explore major sociological approaches to culture (sociology of culture vs. cultural sociology) and introduce representative themes, theories, and methodological debates regarding culture. Students will also have opportunities to connect the cultural theories to their own life experiences, studying the significance of culture in political, economic, and social settings more generally.

Pre-requisite: None

### **SOCY3000 GENDER AND SOCIETY**

This course studies how pervasive gender is in organizing our social life. We shall examine how gender organizes everything from our sense of personal identity to our daily face-to-face interactions, and how gender is embedded in institutions such as the family, labor market, religious institutions, and the state. The aim is to provide students with sociological ways of thinking about gender.

Pre-requisite: None



### **SOCY3001 SURVEY METHODS AND SAMPLING**

This course aims to teach students how to design a questionnaire and implement surveys using simple random, systematic, stratified, clustered or multistage sampling designs. Students are also expected to learn how to estimate sample size, test hypothesis and adjust for non-response upon successfully completing this course.

Pre-requisite: SOCY1003 Social Research Methods

### **SOCY3002 INTERNSHIP**

This course is designed as a field practice course. Students will learn how to apply what they have learnt in class to a practical situation. They are expected to write reports and meet with the instructor regularly, in groups and/or in person, to share their experiences and discuss what they have learnt.

Pre-requisite: With instructor's approval

### **SOCY3004 RELIGION AND SOCIETY**

This course examines the various approaches and studies pertaining to the complex interrelationships between religion and society. Some of the major themes it covers include: the classic secularization debate, sect and cult as the agents of religious and social change, the social and symbolic functions of ritual, the ambiguous power relationship between church and the state, the role of different religions in the making of modern civil society, as well as the resurgence of religions in the age of globalization. Examples from religions in Macao and other societies will be used in the illustration and discussion of relevant concepts and theories.

Pre-requisite: None

### **SOCY3005 SOCIOLOGY OF EDUCATION**

This course examines the articulation of education with the broader social system. The various issues of educational attainment, ideologies and hidden curriculums, classroom as an interaction system between teachers and students, and the role of social, symbolic and cultural capitals in the determination of educational success and the reproduction of society, will be discussed.

Pre-requisite: None

### **SOCY3006 SOCIAL MOVEMENTS AND COLLECTIVE BEHAVIOUR**

This course focuses on theories of social movements and collective behaviour through an examination of contemporary movements. The goal is for students to learn the analytic tools necessary to examine and critically assess the role of social movements in our society. Students will learn the theoretical frameworks and perspectives to understand social movements and collective actions. The selected texts include articles from academic journals and case studies of movements which will further our theoretical and conceptual understanding of social movements.

Pre-requisite: None

### **SOCY3007 FUNDAMENTALS OF URBAN STUDIES**

More and more people in today's world live in cities. This course examines the special and often unique problems and challenges of both urban living and doing anthropological research on distinctly urban cultures, lifestyles and communities. Topics include the material and symbolic implications of increased urbanization worldwide; continuity and change in urban cultures; new opportunities, values and ways of life made possible in cities; concepts of space and place; and the conflicts and problems generated by recent trends in urban policy, planning, community development, and environmental impacts.

Pre-requisite: None

### **SOCY3012 HEALTH AND SOCIETY**

The purpose of this course is to introduce students to the major social variables—social class, race, gender, poverty, income distribution, social networks/support, community cohesion, the work and neighborhood environment—that affect population health. The course covers the

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theoretical underpinnings of each construct, and surveys the empirical research linking each to population health status. Methods are introduced to operationalize each construct for the purposes of empirical application in epidemiologic research.

Pre-requisite: None

### **SOCY3013 WHITE-COLLAR CRIME**

This course provides an examination of theory and research in the field of white-collar crime. Classic theoretical works will be considered as well as contemporary writings. The course will begin with an introduction to the field, including definitional and theoretical issues regarding the areas of white-collar, occupational, organizational, and corporate crime. Following this, we will examine various forms of white-collar crime including: consumer crime, corporate crime, computer crime, and financial fraud. Finally, we will review salient issues regarding the causes, prevention, enforcement, and sanctioning of white-collar crime.

Pre-requisite: None

### **SOCY3015 CRIME AND CRIMINAL JUSTICE IN CHINA**

The landscape of crime and criminal justice system in China has under dramatic changes in the past six decades. While pre-reform China has been regarded as a "crime-free" society, the crime rate has soared in the recent three decades due to rapid industrialization, urbanization and modernization. China's incarceration rate is around the world average, but its wide use of death penalty makes it one of the most punitive countries in the world. How to understand the unprecedented change of crime and Chinese government's effort in controlling crime? What are similarities and differences of Chinese experience of crime and its control in a global perspective? This course will provide a criminological analysis on various issues on crime, policing and punishment in China.

Pre-requisite: None

### **SOCY4000 RESEARCH PROJECT**

This course aims to help final-year students to consolidate and deepen their understanding of sociological perspectives by applying them to the analysis of social phenomena and specific issues. Students are responsible for defining a research topic, articulating a research problem, and designing a feasible research project. Emphasis will be put on training the competence of the students to position their research projects in the broader relevant fields of the discipline, and to conduct constructive dialogues with the existing literature.

Pre-requisite: Sociology majors only

### **SOCY4001 INDEPENDENT STUDY IN SOCIOLOGY**

This course is designed to provide the student with an opportunity to gain or enhance sociological knowledge and to explore an area of interest related to sociology or criminology research under the supervision of a professor.

Pre-requisite: None

### **SOCY4002 SELECTED TOPICS IN SOCIOLOGY**

This course is designed to be highly flexible to allow examination and discussion of specific issues in sociology not included in the regular degree curriculum. Discussion topics will be selected by the instructor and may vary from year to year.

Pre-requisite: None

### **SOCY4003 SELECTED TOPICS IN ANTHROPOLOGY**

This course is designed to be highly flexible to allow examination and discussion of specific issues in anthropology not included in the regular degree curriculum. Discussion topics will be selected by the instructor and may vary from year to year.

Pre-requisite: None

### **SOCY4004 SOCIOLOGY OF CONSUMPTION AND LEISURE**

Consumption and leisure is an intrinsic part of modern life and the dominant economy in Macao.

But what is a “consumer society”? What is the essence of economic and social relationship in consumer society and how is it different from other ways of structuring society? What is “consumerist culture” that is blamed for causing family disintegration and social alienation? This course will take students through the key readings and theories on consumption and leisure and on modernity and globalization at large, which are built upon classical sociological theories. The theories will be combined with topical discussion and case studies.

Pre-requisite: Students are required to take and pass SOCY1000, SOCY1001 and SOCY2000 prior to this course

### **SOCY7700 CRIMINOLOGY AND CRIMINAL JUSTICE**

This course provides an overview of the nature and extent of crime, the causes of criminal behavior, crime typologies and measurements, and the criminal justice system. The course takes an international approach, reviewing knowledge and theories about crime and assessing the effectiveness of crime prevention and offender treatment programmes in major social and cultural contexts.

Pre-requisite: None

### **SOCY7701 CRIMINOLOGICAL THEORIES**

This course will consider historical and contemporary explanations of crime and criminal behavior. Theories covered include strain, control, cultural, labeling, conflict, as well as more recent attempts at theoretical integration and multidisciplinary integration.

Pre-requisite: None

### **SOCY7703 APPLIED STATISTICS**

This course represents an introduction to statistical methods for analysing empirical data. Students will learn basic and advanced methods for quantitative and qualitative data analyses, gain experience in using statistical software, and apply their statistical knowledge and technical skills to real datasets in criminology and criminal justice.

Pre-requisite: None

### **SOCY7704 POLICING**

The course is an introduction to the study of modern policing from its 19th century origins to current controversies about community relations, public order, miscarriages of justice and the possible futures of police-work. It provides historical, social and political analysis of the roles and functions of policing. And it engages some current controversies about community policing, accountability, public order, private security and the future of police work.

Pre-requisite: None

### **SOCY7705 CORRECTIONS**

The course examines the prison and issues of corrections in terms of historical development and current applications. It examines various perspectives and definitions of social control; philosophical underpinnings of the system; and prisoner and societal implications of social control. We deal with the history, forms, and functions of correctional philosophies, institutions, programmes, and policies. Topics include the structure and functions of prisons and jails, community corrections, intermediate sanctions, and the growth of correctional control in modern society.

Pre-requisite: None

### **SOCY7710 RESEARCH METHODS**

This course is a postgraduate level seminar designed to increase knowledge of research methods commonly used in social science research. Through lecture, discussion and class activities, this course will introduce different methods of conducting research. The seminar will focus on issues related to theory development, hypothesis formation, variable construction, research design, sampling methodology and the techniques and methods of data collection. Students will write a research proposal that details a research question and the research design appropriate for addressing that question.

Pre-requisite: None

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**SOCY7711 COMPARATIVE CRIMINOLOGY**

We study selected criminal justice systems in other jurisdictions, including the organization, administration and operation of criminal justice agencies in the United States, Europe, the United Kingdom, and Asia.

Pre-requisite: None

**SOCY7712 SUBSTANCE ABUSE AND ADDICTION**

This course provides students with a survey of the historical context of the legislative initiatives that have been attempted to combat the use of drugs, the relationship between drug use/abuse and crime, and the public policy problems surrounding the control of drugs. We describe major drugs, what effects they have, their methods of use, their prevalence, production and marketing and common street names. The course analyzes the composition, manufacture, use, and misuse of drugs (including alcohol); their relationship to criminality, and current responses by governmental and private organizations. Exposure to treatment programmes may be required.

Pre-requisite: None

**SOCY7713 ADVANCED STATISTICS**

The course is designed to help students to master advanced quantitative methods used in the social sciences, and to facilitate them learning more advanced methods. The main topics that will be covered in depth during this semester include ANOVA, simple and multiple regression, logistic regression, and Poisson regression.

Pre-requisite: None

**SOCY7715 CRIMINAL PSYCHOLOGY**

This course focuses on biological, environmental, cognitive, and personality factors that influence delinquency and crime. Major topics of discussion will include psychopathology, maladjustment patterns, psychoses, personality disorders, cognitive development, and alcohol and drug dependency, and the relationships between these factors and criminal behavior. The course will also cover offender profiling, sexual violence, and psychological treatment of delinquents and criminal offenders.

Pre-requisite: None

**SOCY7720 SPECIAL TOPICS IN CRIMINOLOGY AND CRIMINAL JUSTICE I**

This course is designed to provide up to date development in research and practice on certain topics in criminology and criminal justice field.

Pre-requisite: None

**SOCY7721 SPECIAL TOPICS IN CRIMINOLOGY AND CRIMINAL JUSTICE II**

This course examines selected topics and recent developments in research, policy, and practices in the areas of criminology and criminal justice.

Pre-requisite: None

**SOCY7722 JUVENILE DELINQUENCY**

This graduate level course aims to provide the groundwork for the study of juvenile delinquency and juvenile justice. It provides students with knowledge regarding the following: juvenile delinquency and its causes and correlates, strategies and policies being used to control delinquency, a broad picture about the juvenile justice system using the American model as an example. Cross-cultural comparisons will be made to further students' understanding of delinquent behavior and to examine the applicability of Western theories and policies in the Chinese context.

Pre-requisite: None

**SOCY7723 QUALITATIVE RESEARCH METHODS IN CRIMINOLOGY AND CRIMINAL JUSTICE**

This course will provide students an advanced training in qualitative research methods in criminology and criminal justice. It will cover different ways of thinking between qualitative and

quantitative methods, how to integrate qualitative and quantitative methods in a research project, how to do ethnography, interview and qualitative data mining in social sciences, how to manage and analyze qualitative data, how to appreciate and write a qualitative research paper, and strategies in publication. The lecture will draw extensively from my over one decade firsthand research experience in applying various qualitative research methods. Students will be encouraged to practice classroom knowledge and “get your hands and pants dirty” (Robert Park) in real research.

Pre-requisite: None

### **SOCY7998 PROJECT REPORT**

The Project Report should consist of an essay that may involve or combine a variety of forms and methods to address a topic that is of significance to the field of criminology or criminal justice. The project must be characterized by a comprehensive account of the topic and the issues being analysed and evaluated; and demonstrate a familiarity with and an ability to utilize different methodologies and scholarship.

Pre-requisite: None

### **SOCY8801 SELECTED TOPICS IN SPECIALIZED THEORIES**

The objective of the course is to deepen students' understanding of theory by connecting larger paradigms of sociological theories to specific theories that analyze a specific field of study in sociology. Selected topics in this course may include theories focusing on specific issues in sociology such as gender and sexuality; marriage and family; adolescent development; globalization; political participation; deviance and crime; social movements; religion; race and ethnicity; nationalism and national identity, etc. The specialized theories covered depend on the needs of the students.

Pre-requisite: None

### **SOCY8802 SELECTED TOPICS IN ADVANCED RESEARCH METHODS**

The objective of the course is to strengthen students' abilities in sociological research. This course teaches students advanced research methodologies as well as data management and analysis skills. These may include advanced statistical methods and recent developments in research design in the quantitative tradition, and/or qualitative 8 approaches in the interpretive and critical traditions. The specific topics covered depend on the needs of the students.

Pre-requisite: None

### **SOCY8805 SELECTED TOPICS IN ADVANCED SOCIOLOGICAL RESEARCH**

In this course, students will engage with classical and/or contemporary readings of primary sources for exploration of various topics related to sociology and sociological research. The readings will vary from year to year depending on the needs for advanced study of sociology.

Pre-requisite: None

### **SOCY8806 ACADEMIC WRITING AND SCHOLARSHIP**

This doctoral level course aims to develop students' knowledge and skills regarding academic writing in sociological studies. The course will introduce the underlying principles of logic, argumentation and reasoning in academic writing practices. Specific conventions and technical requirements for quantitative and qualitative research reporting will be discussed and applied in preparation for dissertation writing and the writing of research papers for publication in refereed English journals. Students will also engage with relevant primary and secondary source readings, and conduct critical analysis of exemplary texts.

Pre-requisite: None

### **SOCY8999 DOCTORAL THESIS**

The PhD thesis is a highly original work. It requires both theoretical foundation and empirical evidence to apply, enrich or develop certain theories in sociology/criminology.

Pre-requisite: None

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### **SSGC7001 RESEARCH SEMINARS ON MACAO STUDIES**

This seminar course aims to provide an overview of the latest research outcomes about Macao to the students. Experts from the different areas of Macao studies will deliver lectures about their research and findings of particular research projects. Topics will cover history, culture, social institutions, political developments and other aspects of social sciences or issues in humanities and even natural science.

Pre-requisite: None

### **SSGC7002 MACAO HISTORY**

This course traces the history of Macao. Emphasis will be on the relations between the Chinese, Portuguese, and other power in the early days of Portuguese settlement, the colonial history after the Opium Wars, and major historical events before and around the return of Macao sovereignty to China.

Pre-requisite: None

### **SSGC7003 CONTEMPORARY ISSUES OF MACAO**

This course adopts a "problem-based" approach where students engage with contemporary issues about Macao from four major perspectives: Politics, Economy, Culture and Society. It will cover topics including: Basic Law and the Political system of Macao; Local Macao Politics and social organizations; Macao and the Greater China; Macao economics and Industry Policy; Macao population and social development; Macao's cultural heritage and its cultural development, Greater Bay Area and Macao; Belt and Road Initiative and Macao; Macao and the Portuguese speaking countries.

Pre-requisite: None

### **SSGC7004 RESEARCH METHODS**

This course provides students with knowledge of major social sciences research methods that are relevant in Macao Studies. Quantitative and qualitative research methods are introduced. A focus will be given on conceptualization, research design and operationalization of quantitative and qualitative projects, providing a foundation for an academic exploration.

Pre-requisite: None

### **SSGC7005 CULTURE AND SOCIETY OF MACAO**

This course will examine the various aspects of Macao culture, including the aspects of the Chinese, Portuguese, and other cultures and religions. In addition, the course will examine various social issues like gender, race, class, deviance and crime, urban housing, traffic and transportation, air pollution, etc. An emphasis is on social change, civil society formation and a Macao identity formation.

Pre-requisite: None

### **SSGC7007 LITERATURE AND THE ARTS IN MACAO**

Macao has a rich history of literary tradition among the Chinese, Portuguese, Macanese, and English. Novels, short stories, poems, and other works of literature and the arts all vividly portray Macao's culture and society and define Macao's identity. This course will examine how different literary works portray Macao's socioeconomic life and help shape Macao's identity.

Pre-requisite: None

### **SSGC7010 URBAN GEOGRAPHY OF MACAO**

This course covers the spatial aspects of Macao's rapid-pace development, including the built and natural environment over time as a result of human-land-maritime interactions and historical harborworks and the maritime/fishing interface. It also deals with a range of current local and cross-border issues, including pollution, energy, water supply, public transport, housing, urban planning, recreation/nature zones, expanded land reclamation etc. An emphasis is on a historical-comparative understanding versus such other built environments-coastal cities as Singapore, Hong Kong, and Shanghai.

Pre-requisite: None

### **SSGC7011 HISTORICAL HERITAGE OF MACAO**

This course folds into post-colonial studies and cultural studies understandings. We will emphasize memory and remembering as part of this reflective trope. We will study monuments, museums, churches, temples, colonial buildings, industrial buildings, and other representations like street names and compare with such regional “heritage” managed cities as Penang, Malacca, Hoi An (Vietnam), Goa, etc.

Pre-requisite: None

### **SSGC7012 AND SSGC7013 SELECTED TOPICS I AND II**

Each of these is a course that provides students with knowledge and/or skills that is or are related to a specific issue in Macao studies. It will be taught by an instructor with the special knowledge and/or skills in that area of study.

Pre-requisite: None

### **SSGC7015 THE MACAO ECONOMY**

This course will overview the historical development of the different industries in Macao and focus on Macao's economic growth in the 20th and 21st century. It will introduce basic political economy concepts like monopoly and provide an economic explanation of the current Macao economic status.

Pre-requisite: None

### **SSGC7016 POLITICS AND POLITICAL SYSTEM IN MACAO**

This course explores politics between China and Portugal as well as among the world powers after the Portuguese settled in Macao. The course will especially examine and evaluate the contemporary political system under the “One Country, Two Systems” formula. How political factors interact with each other and influence the evolution of the political system throughout history will be the focus of the course.

Pre-requisite: None

### **SSGC7017 REGIONAL STUDIES**

The course aims at providing students with an understanding of the critical concepts and issues related to regional studies. Through the regional studies approach. Students will learn about political, economic and cultural processes occurring at a sub- and supra-state level. It will introduce the main concepts concerning the modern State, the concepts of localism and regionalism. It will also analyse the political developments around the world through some regional case studies, and pay special attention to China's national, regional development policies like the Greater Bay Area and the Belt and Road Initiative.

Pre-requisite: None

### **SSGC7018 RESEARCH PRACTICE**

This course integrates theoretical learning with practice in real research projects. It trains students towards acquiring competence in research endeavors including information search, literature reviews, methodological designs, data collection, data analysis, proposal and report writing, experimental/laboratory skills and so on.

Pre-requisite: None

### **SSGC7100 RESEARCH METHODS ON POLICE AFFAIR**

This course systematically describes the science, scientific research, academic paper topic selection, scientific research methods and application, features, and science research papers writing. The highlight of the course is the topic selection methods and skills of police science research with information technology.

Pre-requisites: None

### **SSGC7101 STUDIES OF CRIMINAL INVESTIGATION**

This course mainly introduces the research status of theories and basic principles of criminal investigation, and discusses methods, strategies and patterns of investigation, etc. According

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to the current situation of crime and investigation, this course discusses the serialization, industrialization, networking of crimes and related investigation countermeasures.

Pre-requisite: None

### **SSGC7102 CRIMINOLOGICAL THEORY**

This course will provide an overview of the most influential criminological theories. It focuses on major perspectives related to crime causation, including biological, psychological, sociological, and developmental theories of delinquency and crime. Another focus of the course is the application of these theories to predict and explain criminal activities mostly commonly observed in the contemporary societies of Macao and mainland China.

Pre-requisite: None

### **SSGC7103 POLICING TACTICS AND COMBAT**

This course is derived from the guiding ideology of safe police law enforcement and aims to build a necessary bridge between basic theoretical study and police law enforcement practice. Under the premise of consolidating the basic theory, this course uses case teaching and adversarial training throughout the course to explore the concepts and essence of police tactics, and then cultivate tactical awareness and group training capabilities.

Pre-requisite: None

### **SSGC7104 STRATEGY AND PRACTICE OF CRIME PREVENTION AND CONTROL**

This course will provide an overview of the current strategies and practices of crime prevention and control. Under the premise of explicating the basic ideas, basic theories, the subject and object, and operating mechanism of public security maintaining, this course teaches special topics (including public security order management, emergency management, public security maintaining in important infrastructure, key areas and cyberspace, and so on) combined with practical cases.

Pre-requisite: None

### **SSGC7105 THEORIES AND PRACTICE OF CRIMINAL LAW**

The course is through face-to-face study in the professional fields of public security management, legal system, prevention and control practice and social security governance within the established learning period, after passing the results of each subject, the students write their graduation thesis based on theory and practical work experience.

Pre-requisite: None

### **SSGC7106 THEORIES AND PRACTICE OF COMMUNITY POLICING**

This course draws on the theories and practices of public security, sociology, political science, management, and other disciplines, combines with the latest developments in social governance and community policing in the country, and aims to cultivate the comprehensive ability of master students of public security management to solve public security practical problems especially in community policing.

Pre-requisite: None

### **SSGC7107 MODERN POLICING TECHNOLOGY**

This course mainly introduces common scientific and technological methods, principles and applications in modern police work, including biometric identification technology, video investigation technology, forged document inspection technology, voice inspection technology, spectral imaging technology, biological evidence technology, big data technology, digital forensics technology, network attack and defense technology, etc.

Pre-requisite: None

### **SSGC7108 SOCIAL ISSUES AND GOVERNANCE**

This subject provides students with a series of approaches to the study of social policy and governance in Macau or the Greater Bay Area. The subject bridges theories from sociology, political economy, and epidemiology to develop students' capacity to provide a holistic analysis



of the policies surrounding social issues in the light of socio-economic changes. The subject will help students to understand and examine the potential contradictions that market failure and government failure have for specific socio-demographic groups.

Pre-requisite: None

### **SSGC7109 PUBLIC RELATIONS AND MEDIA COMMUNICATION SKILLS**

The primary objective of this course is to train students on the theories/concepts/principles/practices of media relations from public relations perspectives. It helps students understand what media relations is all about, and how to communicate and manage the relationships with the media. Due emphasis is also placed on such technical aspects as planning, developing and executing the programs focusing on improving and enhancing the relationships with the media. Local and overseas cases are to be used to help students comprehend how to cope with and deal with the media in reality.

Pre-requisite: None

### **SSGC7197 INTERNSHIP AND REPORT**

Students will place an internship at a public security department or a relevant unit for public order and security. The internship exercise aims at articulating and applying theories and knowledge discussed in the class at real workplace so as to enhance students' capacity in managing agency for public security. In addition, students will have to critically review and reflect internship experience, suggest policy/reform for public security issues and hence, contribute to the understanding in the field of public security and policing.

Pre-requisite: None

### **SSGC7990 THESIS**

The thesis can be in either Macao history, politics, economics, sociology, education, law, or comparative literature of Macao. But it has to integrate the knowledge learned in the programme. It has to demonstrate that the student is well-prepared for PhD studies. And it can be in either Chinese or English, depending on the language used by the student and supervisor.

Pre-requisites: None

### **SSGC8000 GOVERNANCE SYSTEM AND GOVERNING CAPABILITY**

本課程教授良政善治和公共行政的基本概念、理論和方法。其目的是幫助學生了解一個國家如何建構現代化的治理體系和治理能力，以及如何透過有效的公共管理和良好製度來實現良政善治。透過研究良好治理實踐、公共政策制定和公共服務機構，本課程鼓勵學生將課堂上學到的理論和方法應用於解決實際治理問題。

This course teaches essential concepts, theories, and methods of good governance and public administration. It helps students to understand how states build a modernized governance system and governing capability, and how good governance can be achieved through effective public administration and good institutions. Through studying good governance practice, public policymaking, and public service institutions, this course encourages students to apply the theories and approaches learned in classroom to the solution of practical governance problems.

Pre-requisites: None

### **SSGC8001 PUBLIC POLICY ANALYSIS**

The course introduces candidates to the concepts of public policy analysis, like collective action, political efficacy and transparency, as well as, tools useful for evaluating policy impact and effectiveness. The candidates can understand the tradeoffs involved in the design of policies and institution, besides, the impacts of public administration reforms on efficiency, accountability and transparency.

Pre-requisites: None

### **SSGC8002 PUBLIC ADMINISTRATION THEORY AND PRACTICE**

This course introduces to the candidates the evolution and the future direction of public administration theory and practice. In fact, the focus of public administration theory is shifting

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from mechanical efficiency of traditional public administration to social efficiency of New Public Management and, recently, to public values and public interests of New Public Governance or New Public Service. Interdisciplinary and integrative approach becomes more and more important to public administration and public policy research.

Pre-requisites: None

### **SSGC8003 COMPARATIVE PUBLIC ADMINISTRATION**

本課程將以中國與西方主要國家為例，從國際比較的角度介紹和探討與國家行政有關的各種議題。主題包括(但不限於)政治文化、制度與行政、官僚結構與招聘、治理與公共政策以及公共部門改革。

In this course, we will introduce and explore a variety of subjects related to the general administration of countries from an international comparative perspective, using China and major Western countries as examples. The topics include (but are not limited to) political culture, institutions and administration, bureaucratic structures and recruitment, governance and public policy, and public sector reforms.

Pre-requisites: None

### **SSGC8004 PUBLIC ADMINISTRATION IN CHINA**

The course provides the candidates with an overview of some major issues in public administration and public policy in China. Topics may include the public administrative system of China, social welfare system and welfare dependency, performance evaluation of municipal government, smart city development, civic engagement and public governance.

Pre-requisites: None

### **SSGC8005 RESEARCH METHODS IN PUBLIC ADMINISTRATION**

本課程主要介紹公共行政學科常見的學術研究方法，使學生增進對本學科主流及前沿學術研究方法的瞭解。主要授課主題包括：實證研究簡介、常見資料收集與分析方法、學術寫作範式、大資料等前沿方法在公共行政學科中的應用等。此外，課程將結合理論和應用實際，以課堂討論、小組作業及報告等方式，為學生提供應用場景，提高對學術研究方法的理解及運用能力。

This course primarily introduces various academic research methods in the field of public administration, aiming to enhance students' understanding of mainstream and cutting-edge academic research methodologies. Key topics covered include an introduction to empirical research, common methods of data collection and analysis, academic writing conventions, and the application of cutting-edge methods such as big data in the field of public administration. Additionally, the course integrates theory with practical applications, providing students with applied scenarios through classroom discussions, group assignments, and presentations, thereby enhancing their comprehension and application skills in academic research methods.

Pre-requisites: None

### **SSGC8006 ETHICS AND PUBLIC AFFAIRS**

Under the principle of Good Governance Agenda, public values and public interests are integrated into policymaking and public services delivery. This course provides candidates with an understanding of the principles of ethical considerations of public affairs and public policy, like ageism, feminism and sustainability. Researchers and senior civil servants are invited to demonstrate the concerns of ethics on various public affairs.

Pre-requisites: None

### **SSGC8007 PUBLIC ADMINISTRATION AND POLICY RESEARCH**

Research skills are essential for evidence-based policy-making in public sector. This course provides the students with an overview of the theory and practice of qualitative methods and quantitative methods. This course enables candidates to deliver empirical studies, like the examination of causal effects of policy on observed outcomes and practical experience in applying techniques of qualitative analysis using computer software.

Pre-requisites: None

### **SSGC8010 CURRENT ISSUES IN PUBLIC ADMINISTRATION AND PUBLIC POLICY**

基層治理是當代公共行政的核心，是反映一個國家人民自治的品質。對政治秩序而言，扁平的基層治理至少與科層政府的治理同等重要。這門 DPA 研討課旨在通過討論中國城鄉的精選案例，並比較縱向的中國歷史案例和橫向的全球案例，讓學員能深入理解當代中國的基層治理。本課程包含五個主要內容：治理理論和基層治理理論、作為背景的中共治理理念、農村基層治理案例研究、城市基層治理案例研究、中國歷史案例和國外案例。本課程的考核要求是提交一篇 6,000-7,000 字的學期論文。論文比較自己感興趣的兩個當代案例，展示基層治理的特點和難點。Grassroots governance serves as the core of contemporary public administration, reflecting the quality of people's self-rule in a nation; and it is at least as important to political order as the governance by the government hierarchy. This DPA seminar aims at an advanced understanding on the grassroots governance in contemporary China. It will be conducted by studying selected cases in both urban and rural China, supplemented with vertical (historical) and horizontal (worldwide) cases. This course contains five major contents: theories on governance and grassroots governance, CPC ideas on governance as background, case studies on rural grassroots governance, case studies on urban grassroots governance, cases in the Chinese history and abroad. The student evaluation requires a term paper between 6,000-7,000 characters, comparing two contemporary cases of one's own interest, to demonstrate the features and difficulties in the grassroots governance.

Pre-requisites: None

### **SSGC8011 CURRENT ISSUES IN ECONOMICS AND FINANCE**

The course provides the candidates with an overview of current issues in economic and fiscal policy in Guangdong-Hong Kong-Macau Greater Bay Area (GBA). Topics may include the exchange rate policy of Renminbi (Hong Kong Dollar and Pataca), the development of stock exchange and featured finance, the role of GBA in service platform between China and Portuguese-speaking Countries and "the Belt and Road" Initiative, as well as, the development of GBA city clusters.

Pre-requisites: None

### **SSGC8013 CURRENT ISSUES IN SOCIAL SECURITY AND SOCIAL WELFARE**

The course provides the candidates with an overview of social security and social welfare in Guangdong-Hong Kong-Macau Greater Bay Area (GBA). Topics may include the social welfare system and welfare dependence, the sustainability of social welfare system, the role of voucher system and social insurance in social welfare system, tourism poverty alleviation, furthermore, smart health care and smart elderly service.

Pre-requisites: None

### **SSGC8015 E-GOVERNMENT AND DIGITAL GOVERNANCE**

課程探討在大數據、人工智慧、物聯網等新興技術的衝擊下政府治理面臨的機遇和挑戰，其中包含政策法規、體制架構、組織效能、服務提供、公眾參與等，釐清現階段政府數位化治理的困境和未來發展之路，思考公共政策與新興技術之間的關係，幫助學生瞭解數字治理領域的前沿話題。

The course explores the complex terrain of governmental administration in the context of the disruptive impact of cutting-edge technologies like big data, AI, and the Internet of Things. It includes a thorough analysis of many different aspects, such as institutional structures, public engagement frameworks, organizational efficacy, rules and regulations, and service delivery systems. The course intends to set a direction for future growth by clarifying the opportunities and difficulties that come with government digital governance today. Furthermore, it cultivates critical thinking on the interaction between new technologies and public policy, giving students a sophisticated grasp of cutting edge subjects related to digital governance.

Pre-requisites: None

### **SSGC8016 PUBLIC CRISIS MANAGEMENT**

本課程以總體國家安全觀為指導，內容包含國內外公共危機管理領域的理論成果和實踐經驗，

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闡述公共危機的界定和風險評估、應急準備和機構設置、危機決策和風險控制、危機預警和應急回應、公共危機調查追責、突發事件新聞發佈、負面影響防範和輿情管理等內容，旨在培養學生的公共危機意識和應對風險能力。

Providing a thorough examination of theoretical frameworks and practical insights in the field of public crisis management, including both domestic and international situations, this course is based on the broad national security paradigm. The definition and risk assessment of public crises, emergency preparedness and institutional establishment strategies, crisis decision-making and risk mitigation protocols, crisis early warning and rapid emergency response mechanisms, public crisis investigation and accountability procedures, emergency news distribution guidelines, adverse impact prevention strategies, and crisis management techniques are all covered. The course's main goal is to raise students' awareness of public crises and improve their capacity to handle a variety of dangers and difficulties.

Pre-requisites: None

### **SSGC8099 DOCTORAL THESIS**

By this course, candidates have the opportunity to apply the concepts and the theories learned from the programme. The thesis-writing process could consolidate the candidates' ability to conduct independent research, demonstrate their expertise in a chosen area of interest and make an intellectual contribution to the practice of public administration and public policy.

Pre-requisites: None

### **SSGC8802 QUANTITATIVE RESEARCH METHODS**

This course is a doctoral level seminar designed to develop the students' knowledge and skills of quantitative methods in social sciences, familiarize them with procedures of designing and implementing quantitative research projects, improve their critical thinking capability, and increase their competency in writing research papers for publication in refereed English journals. It will provide the students with hand-on experiences in data analysis using state-of-the-art tools and methods.

Pre-requisites: None

### **SSGC8803 QUALITATIVE RESEARCH METHODS**

This doctoral level course aims to develop students' knowledge and skills of qualitative research methods in social sciences. Students explore different ontological, epistemological and related methodological perspectives of qualitative research in applied contexts, professional practice, and cultural settings. Students also engage with high-level readings of primary sources and apply critical analysis of exemplary qualitative research papers in preparation for designing and implementing qualitative research projects, develop interpretive/hermeneutic skills, and enhance competency in writing research papers for publication in refereed English journals.

Pre-requisites: None

### **SSGC8806 UNIVERSITY TEACHING AND PRACTICE**

The purpose of this seminar-based course is to introduce students to the issues, practices and strategies involved in collaborative and interactive teaching in higher education settings. Through assigned readings and online and in-class discussion, the course focuses on the nature of teaching and learning, the role of student engagement, how student development impacts learning, the use of technology to enhance student learning, course design, learning outcomes, and models of teaching practice. The course further explores strategies for authentic assessment and whole person education, as well as the development of a teaching portfolio through practical application.

Pre-requisites: None

### **SSGC8807 ACADEMIC WRITING AND SCHOLARSHIP**

This doctoral level course aims to develop students' knowledge and skills regarding academic scholarship and research writing within the social sciences. The course includes the discussion of ways in which culture informs academic writing, and the underlying principles of logic,

argumentation and reasoning in academic writing practices. Discipline-specific scholarly conventions and technical requirements for quantitative and qualitative research reporting are discussed and applied in preparation for dissertation writing and the writing of research papers for publication in refereed English journals. Students will also engage with relevant primary and secondary source readings, and conduct critical analysis of exemplary texts.

Pre-requisites: None

### **SSGC8808 SOCIAL THEORY**

This seminar-based course covers a wide range of material derived from a variety of theoretical traditions and bodies of work. It introduces students to, and help them develop an understanding of, complex issues and texts that are now established as the theoretical basis of scholarship in a number of relevant cognate fields, including communication studies, media studies, cultural studies, gender studies, visual culture, postcolonial studies, literary studies, anthropology, education, film studies, sociology and psychology. Topics in this course will vary according to course instructor and student interest, and may include readings of classical and/or contemporary theories in the social sciences.

Pre-requisites: None

### **SSGC8809 RESEARCH ETHICS**

In this online research ethics course, students will engage as independent learners in the CITI training programme to gain in-depth knowledge and understanding of all aspects of ethics as it applies in the social sciences. The CITI training programme comprises the minimal standards to demonstrate ethical competence and to comply with UM policy and Macau governed regulations for research with vulnerable populations, emerging designs, technology, and more. All students need to complete the discipline-specific prescribed units of the CITI training programme with a default score of 80% or more.

Pre-requisites: None

# Honours College

## PROGRAMME CURRICULUM

The curriculum is designed to nurture high flying students into globally competitive leaders and intellectual achievers committed to collaborative and creative thinking for Macao and beyond. It provides students with courses for learning and practicing leadership, experience of study abroad, community engagement at residential college (RC) and service learning on and off campus. In completion of the Honours College Certificate Programme, students will have:

- earned seven credits of honours courses
- gained study abroad experience
- fulfilled the RC residency requirement
- completed a leadership & service learning requirement

## HONOURS COURSE

Students have to complete one 3-credit lecture base honours course, one 1-credit honours project and one 3-credit capstone project with a “B” or higher grade earned for each course.

Course Title	Type	Credits
<b>HONR2003</b> Developing Leadership	Compulsory	3
<b>HONR2004</b> Project on Social Awareness	Compulsory (Group Project)	1
<b>HONR4001</b> Honours Project	Compulsory (Individual Project)	3
<b>Total credit requirement:</b>		<b>7</b>

## STUDY ABROAD EXPERIENCE

Students are required to fulfil “study abroad” experience during their studies at UM. The experience must be semester/ academic year based and credit bearing with a minimum of 3 abroad credit successfully transferred back to UM. It must be *international* experience. Hence, mobility programmes to universities in Mainland China, Taiwan and Hong Kong regions will not be considered as fulfillment of the Honours College Certificate Programme. There are multiple ways in fulfilling this requirement with different types of financial support and requirements as stipulated by internal regulations; e.g.

- A full time semester abroad at universities having agreement with the Honours College.
- A full time semester/ year abroad through the programme operated by UM.

† Different types of scholarship with requirements will be awarded to support this study abroad experience based on the availability of university's financial resources.

## RESIDENTIAL COLLEGE RESIDENCY

- Students are required to have four-semester RC residency during their undergraduate study at UM
- For students admitted through recommendation of RC Masters and Dean of Students, they are required to have full (except study abroad period) RC residency during their undergraduate study at UM

## LEADERSHIP & SERVICE LEARNING

- Students are required to demonstrate their leadership skills and services on and/or off campus by satisfying requirements through the Whole Person Development Award Programme offered by the Student Affairs Office (SAO), or an equivalent programme recognized by SAO
- With the Whole Person Development Award Programme, students are required to earn a minimum of 900 cumulative Competency Score (CS) with a minimum of 150 CS in each of the 5 core areas of development for graduation
  - Interpersonal Relation and Teamwork
  - Healthy Living
  - Cultural Engagement
  - Citizenship with Global Perspectives
  - Leadership and Service

## ADMISSION

Students pursuing a Bachelor's degree could be admitted to the Honours College Certificate Programme through three different channels:

### 1. Direct Admission of incoming first-year students

Students who are offered any of the following scholarship awards are eligible for application of expedited admission to the Honours College, and will be admitted upon passing the admission interview\*.

- UM Grand Lotus Scholarship (by Principals' Recommended Admission)
- UM Golden Lotus Scholarship (by Principals' Recommended Admission & Admission Examination channels)
- UM Full Scholarship for Mainland China, Hong Kong and Taiwan Region Students
- UM International Student Scholarship (Full Scholarship)
- Any other scholarships subject to the University's decision

\*Admission interview will be conducted by the Honours College at the beginning of the academic year.

The Honours College offers activities focusing on personality development for the incoming first-year students.

### 2. Admission by Open Application

First-year students for 4-year programme and second-year students for 5-year programme could be admitted through application.

- A minimum 3.3 cumulative GPA (Scale Average 15 for Faculty of Law) is required at the time of application and admission
- Applicants will be assessed based on their academic and extracurricular documents submitted with the application, and by interview if needed

### 3. Admission by Recommendation of Residential College and Student Affairs Office

Students who have demonstrated strong leadership potential, stronger participation in services and/or special talents in areas such as arts, sports, language, music, literature can be admitted by recommendation of RC Masters and Dean of Students.

- RC Master could recommend 2 students per year from the corresponding RC into the Honours College
- Dean of Students could recommend 2 students per year into the Honours College
- First-year students for 4-year programme and second-year students for 5-year programme could be admitted through application.
- A minimum 3.0 cumulative GPA (Scale Average 14 for Faculty of Law) is required at the time of recommendation and admission

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## CONTINUATION REQUIREMENTS

To remain enrolled in the Honours College, a student must normally satisfy the following requirements

- Enroll each semester on the degree programme at the student's home unit.
- Maintain cumulative GPA\* of 3.0 (cumulative Scale Average\* 14 for Faculty of Law students) or above.
- Those with cumulative GPA\* dropping below 3.0 but not below 2.95 would be placed on probation and would be given a grace period of one semester to achieve a cumulative GPA\* of 3.0 or higher.
- Pass every subject taken at the partner University in the Study Abroad experience.
- For students admitted through recommendation of RC Masters and Dean of Students, maintain residency on RC except during study abroad period.
- Meet the English language proficiency requirement by obtaining certain scores from a public examination by the end of the first year of study at HC:
  - TOEFL iBT 79 or above, or
  - TOEFL Paper test 550 or above, or
  - IELTS 6.5 or above
- † Other proof of equivalent language skills to be considered on a case-by-case basis.
- For students in the programmes of Bachelor of Law and Bachelor of Arts in Portuguese Studies, valid CAPLE or CELPE-Bras exam certification at Level CIPLE (A2) or above should be obtained by the end of the first year of study at HC.

The cumulative GPA\* and cumulative SA\* mentioned refer to the overall performance of a student in all the semesters of the specified years of studies, including all courses taken for the degree programme, minor programme(s) and the Honours College Certificate Programme.

## COMPLETION REQUIREMENTS

To graduate from the University of Macau with special recognition at congregation and an Honours College certificate to signify passing of the Honours College Certificate Programme, a student must satisfy the following requirements.

- Complete the requirements of the degree programme at the student's home unit.
- Complete the requirements of the Honours College Certificate Programme.
  - Receive a "B" or higher grade for each of the honours courses taken.
  - Satisfy the Study Abroad Experience requirement.
  - Satisfy the four-semester RC residency requirement; for students admitted through recommendation of RC Masters and Dean of Students, satisfy the full (except study abroad period) RC residency requirement.
  - Satisfy the leadership and service learning requirement by earning 900 cumulative competency score through the Whole Person Development Award Programme of the University. The 900 CS must include a minimum of 150 CS in each of the 5 core areas of development (Interpersonal Relation and Teamwork; Healthy Living; Cultural Engagement; Citizenship with Global Perspectives; Leadership and Service).
- For students admitted through direct admission or open application – Has (1) cumulative GPA\* of 3.3 (cumulative Scale Average\* of 15 for Faculty of Law students) or above and (2) Honours College Certificate Programme cumulative GPA of 3.3 or above.
- For students admitted through recommendation of RC Masters and Dean of Students – Has (1) cumulative GPA\* of 3.0 (cumulative Scale Average\* of 14 for Faculty of Law students) or above and (2) Honours College Certificate Programme cumulative GPA of 3.0 or above.

The cumulative GPA\* and cumulative SA\* mentioned refer to the overall performance of a student in all the semesters of the specified years of studies, including all courses taken for the degree programme, minor programme(s) and the Honours College Certificate Programme.



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**HONOURS RECOGNITION**

Upon completion of all requirements of the Honours College Certificate Programme and the degree programme at their home unit, the honours students will receive special recognition at congregation and a Certificate of Honours College. Honours work is noted on transcripts.

**Course Description****HONR2003 DEVELOPING LEADERSHIP (3 credits)**

This course has three interrelated components focused on the individual, community, and global society, and is designed to develop leadership abilities. The first component focuses on developing students' individual self-awareness and personal development through an exploration of values, beliefs, and socio-cognitive skills. The second component focuses on developing students' leadership skills in the local community. The third component focuses on preparing students to be global citizens, with an enhanced understanding of the diverse values, beliefs, and behaviours typical of different cultures and societies. Taken together, these three distinct course components will build students' capacity to be global leaders.

**HONR2004 PROJECT ON SOCIAL AWARENESS (1 credit)**

The course brings together students of different majors to conduct small group research and discussion on current social issues of local and global communities, and everyday problems, under the supervision of members from the Residential Colleges, including resident fellows, non-resident fellows, and college affiliates. Students are motivated to develop their skills on critical thinking, multidisciplinary approach to problem solving, and teamwork.

**HONR4001 HONOURS PROJECT (3 credits)**

Students are required to apply knowledge from their disciplines of studies to broader global issues such as innovation, entrepreneurship, and sustainability, and complete scholarly projects under the supervision of faculty advisors in the respective field of study of the research topics, including multidisciplinary topics. The projects are expected to meet the scholarly standards of the disciplines and of the Honours College. Students are required to present their projects.

**LANGUAGE OF INSTRUCTION**

English is the main language of instruction.

# **Institute of Applied Physics and Materials Engineering**

## **Doctoral Degree Programme**

### AREA OF STUDY

- Applied Physics and Materials Engineering

## INSTITUTE OF APPLIED PHYSICS AND MATERIALS ENGINEERING

# Doctoral Degree Programme

## Doctor of Philosophy

### • Applied Physics and Materials Engineering

		Credits
<b>Compulsory Courses:</b>		
APME8003	Advanced Instrumentation for Materials Characterization	3
APME8025	Advanced Quantum Mechanics	3
APME8027	Research Ethics	--
APME8037	Research Writing	--
<b>Required Electives:</b>		
1 Required Elective from the list of Required Electives		3
APME8999	Doctoral Thesis	18
<b>Grand Total:</b>		<b>27</b>

### List of Required Electives

APME8001	Solid State Physics	3
APME8007	Thin Film Physics	3
APME8014	Advanced Electrochemical Energy Conversion and Storage	3
APME8020	Advanced Optoelectronics	3
APME8021	Advanced Laser Spectroscopy Technology	3
APME8022	Transmission Electron Microscopy	3
APME8024	Special Topics in Applied Physics and Materials Engineering	3
APME8029	Advanced Inorganic Chemical Synthesis	3
APME8030	Advanced Mechanics of Materials	3
APME8031	Advanced Micro and Nano-systems: From Fundamentals to Applications	3
APME8032	Advanced Organic-Inorganic Engineering Materials	3
APME8033	Nanomaterials and Nanochemistry	3
APME8034	Semiconductor Physics	3
APME8035	Advanced Materials Science and Engineering	3
APME8036	Advanced Electromagnetism and Modern Scattering Techniques	3

# Master's Degree Programme

## Master of Science

### • Innovative Materials

		Credits
<b>Compulsory Courses:</b>		
APME7001	Development on Innovative Materials	3
APME7002	Eco-friendly Materials for Sustainability	3
APME7003	Sustainable Energy Harvesting Technologies	3
APME7004	Technologies for Materials Characterization	3
<b>Required Electives:</b>		
4 Required Electives from the list of Required Electives		12
APME7098	Project Report	6
<b>Total Credits:</b>		<b>30</b>

### List of Required Electives

APME7005	Advanced Energy Storage Technologies	3
APME7006	Special Topics in Emerging Materials	3
APME7007	Energy, Environment and Sustainable Development	3
APME7008	Functional Materials	3
APME7009	Introduction of Solid State Materials	3
APME7010	Materials Design	3
APME7011	Micro and Nano Systems	3
APME7012	Principles of Quantum Mechanics	3
APME7013	Semiconductor Materials and Physics	3

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## Course Description

### DOCTORAL DEGREE PROGRAMME

#### **APME8001 SOLID STATE PHYSICS**

In this course, the behavior of atoms and shared electrons in solids will be described by classical physics and quantum mechanics. The discussion of solid with crystalline structure will be one of the emphases. Some properties of crystal such as defects, disorder and thermal vibration will be studied. Then, band theory will be investigated. The physics of p-n junction semiconductor will also be introduced. Materials will be classified by models of magnetism as well as electric properties.

Pre-requisite: None

#### **APME8003 ADVANCED INSTRUMENTATION FOR MATERIALS CHARACTERIZATION**

Introduction of commonly used materials characterization methods (XPS, SEM, AFM, XRD, XRF, Raman, XPS), including their theory of operation and hands-on experience. Includes a discussion of the measurement process and instrumental analysis of samples.

Pre-requisite: None

#### **APME8007 THIN FILM PHYSICS**

Definition of thin films. Environment and molecular and plasma processes in thin film deposition. Cold and thermal plasma. Requirement for substrate, substrate cleaning. Formation of thin films. Properties of thin films. Mechanical, electrical, thermal, chemical, and optical properties of thin films. Thermal evaporation. Laser ablation, synthesis of nanomaterials. Electrical discharges used in thin film deposition. Practical electric discharge configuration for deposition of thin films, direct current electric discharges, radio-frequency discharges, microwave discharges, electron cyclotron resonance plasma, matching units, floating potential, bias potential, plasma potential, effective bias, self-bias. Physical deposition techniques. Chemical vapor deposition techniques (CVD). Other processing technologies.

Pre-requisite: None

#### **APME8014 ADVANCED ELECTROCHEMICAL ENERGY CONVERSION AND STORAGE**

This advanced course introduces principles, mathematical models and implementation of electrochemical energy conversion and storage. The principle of electrochemistry is introduced, including components of an electrolytic cell, Nernst's equation, thermodynamics and electrokinetics. The basic of power conversion is also introduced, including power electronics switches, converters and their control. The applications to batteries, solar cells, fuel cells and other emerging energy generation technologies are explored.

Pre-requisite: None

#### **APME8020 ADVANCED OPTOELECTRONICS**

Brief introduction of semiconductor physics and condensed matter physics. Theory of the interaction between light and matter. Optical gain, light transmission and absorption in media. Applications of light emission device and photo-electric transfer device. Principle and structure of selected photoelectric device.

Pre-requisite: None

#### **APME8021 ADVANCED LASER SPECTROSCOPY TECHNOLOGY**

Provide essential knowledge for the research frontiers in ultrafast laser spectroscopy and novel optical materials. Topics include: laser fundamentals, linear and nonlinear optical spectroscopy, time-resolved spectroscopy, single molecule spectroscopy, fluorescence and Raman microscopy, optical manipulation, optical properties of novel materials and some optoelectronic applications.

Pre-requisite: None

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### **APME8022 TRANSMISSION ELECTRON MICROSCOPY**

Introduction to imaging and diffraction analysis with transmission electron microscopy. Common sample preparation techniques. Basic diffraction theory and imaging principles using different imaging techniques, including bright field, dark field, high resolution and z-contrast imaging. Working principles of related compositional analysis techniques, including energy dispersive X-ray spectroscopy (EDS) and electron energy loss spectroscopy (EELS). Hands-on operation of the microscope can be optional.

Pre-requisite: None

### **APME8024 SPECIAL TOPICS IN APPLIED PHYSICS AND MATERIALS ENGINEERING**

Any specialized topic in Applied Physics and Materials Engineering chosen by the staff member who has experience in that particular field, but the topic is not covered by the other postgraduate courses in the PhD Programme.

Pre-requisite: None

### **APME8025 ADVANCED QUANTUM MECHANICS**

History and philosophy of quantum mechanics will first be reviewed in this course. Wave function and its statistical interpretation will be investigated. Time-independent Schrodinger equation will be discussed with some examples of infinite square well, finite square well and harmonic oscillator, etc. Then, hydrogen atom will be studied by Schrodinger equations in three dimensions. Furthermore, wave function of two-particle systems, atoms and solids will be introduced. The parts of application cover contents of perturbation theory, variational principle, WKB approximation and adiabatic approximation.

Pre-requisite: None

### **APME8027 RESEARCH ETHICS**

The course provides students with an understanding of the following issues:

- The need for research ethics and the responsibility of the researcher (the student)
- The most common types of academic dishonesty (such as fabrication and plagiarism)
- How to avoid committing acts of academic dishonesty (such as through using citations and references)

Pre-requisite: None

### **APME8029 ADVANCED INORGANIC CHEMICAL SYNTHESIS**

Brief introduction of chemistry basics and main focus on classic and emerging inorganic chemical synthesis methods as well as some physical and mechanical approaches for comparison. Some characterization techniques and their chemical principles. Implications of the inorganic synthesis techniques to the research and development in applied physics and materials science.

Pre-requisite: None

### **APME8030 ADVANCED MECHANICS OF MATERIALS**

Basic training for students to understand the advanced mechanics of materials such as elastic behavior, inelastic behavior, anisotropic behavior, fracture behavior, and fatigue. With these knowledge, students will be able to analyze the materials mechanical behavior and wisely use the materials. Students with the knowledge of different mechanical behavior of materials, both isotropic and anisotropic.

Pre-requisite: None

### **APME8031 ADVANCED MICRO AND NANO-SYSTEMS: FROM FUNDAMENTALS TO APPLICATIONS**

Overall introduction to miniaturization and microelectromechanical systems (MEMS); Fundamental physics of scaling in micro/nano-worlds; Overview of advanced micro/nano-fabrication materials & technologies & devices; Governing principle of physical phenomenon in micro/nano-scales, e.g. actuation, transduction, resonance, and manipulation, etc.; State-of-

the-art applications of micro/nano-systems for interdisciplinary fields.  
Pre-requisite: None

### **APME8032 ADVANCED ORGANIC-INORGANIC ENGINEERING MATERIALS**

Briefly introducing basic knowledge of traditional engineering materials including polymer and cement. Mainly focus on: Introduction of organic/inorganic composite and nanocomposite materials; Introduction of polymeric admixtures for high-performance inorganic materials; Crystallization, surface and interface science of composite materials; Achievement of functionalization and ultimate mechanical properties for engineering composites; Design of advanced engineering composites; Industrial processing and application of engineering composites. Students will learn how to apply the basic knowledge of polymer, cement and composite into the design of advanced organic/inorganic engineering materials towards practical applications. They will also have a good impression for the real industrial use of engineering composites.

Pre-requisite: None

### **APME8033 NANOMATERIALS AND NANO CHEMISTRY**

Introduction of low dimensional nanomaterials, e.g. carbon nanotube, graphene and transition metal dichalcogenides, and the corresponding methods of synthesis and characterization. Surface and interface modification of nanomaterials. Band-structure engineering of nanomaterials. Low-dimensional Van der Waals heterostructures. Applications of electronic devices, thermodynamics and fluid dynamics.

Pre-requisite: None

### **APME8034 SEMICONDUCTOR PHYSICS**

Brief introduction of solid-state physics and crystallography. Mainly focus on the knowledge of semiconductor physics, condensed matter physics and semiconductor device physics: Intrinsic semiconductor, doped semiconductor and the carrier transportation in semiconductors will be introduced; the operating principles of some kinds of semiconductor devices will be introduced, such as pn junction, MS junction and FET, as well as the fabrication method and application in present. Also, some commercial semiconductor devices, such as LED and solar cells, will be introduced.

Pre-requisite: None

### **APME8035 ADVANCED MATERIALS SCIENCE AND ENGINEERING**

A historical account of the discovery and development of materials science & engineering, including in-depth discussion of metals, ceramics, semiconductors, and other strongly-correlated electron systems. Fundamental knowledge in development of energy materials and single crystal growth, introduction of the modern neutron & synchrotron X-ray scattering techniques based on worldwide national large facilities, review of the most updated research achievements in the study of advanced functional materials such as spintronic, multiferroicity, superconductivity, spin frustration, spic ice, solar cell, battery, etc.

Pre-requisite: None

### **APME8036 ADVANCED ELECTROMAGNETISM AND MODERN SCATTERING TECHNIQUES**

Magnetism is a very active and challenging subject since it represents a typical many-body problem and a complex application of quantum-mechanics, statistical physics and electromagnetism. During the last decades, new discoveries have emerged such as the high temperature superconductors and the colossal magneto-resistance manganite compounds. Besides bulk materials, magnetism of thin films and surfaces became a topic of great current interest. A promising new field of application emerges, so-called magneto-electronics with spin transistors. This progress is largely due to new experimental methods and only neutron and synchrotron X-ray scattering would be mentioned.

Pre-requisite: None

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### **APME8037 RESEARCH WRITING**

The course focuses on helping students to make academic presentations whether verbally (as in a conference) or in writing (as in a paper). Topics include:

- How to write a research proposal
- How to structure a presentation (on paper and in power point)
- Tenses used in various parts of a paper presentation
- How to structure clear logical paragraphs
- How to be concise
- How to avoid ambiguity and different writing styles (for example, conventions for use of numbers, abbreviations, etc.)

Pre-requisite: None

### **APME8999 DOCTORAL THESIS**

An independent investigation under the supervision of an institute staff member.

Pre-requisite: None

## **MASTER'S DEGREE PROGRAMMES**

### **APME7001 DEVELOPMENT ON INNOVATIVE MATERIALS**

In this course, seminar on latest development of applied physics and chemistry will be presented by students, faculty and guest speakers.

Pre-requisite: None

### **APME7002 ECO-FRIENDLY MATERIALS FOR SUSTAINABILITY**

Introduction of materials and their relationship to environment, emphasizing the mitigation of the impact to the environments in various stages of material, including manufacturing, use and disposal. Topics covered include: materials and energy dependence; production and application of materials in industries; material lifecycle and its relationship to energy and carbon; material selection strategies, material sustainability, materials for low-carbon power, material efficiency, properties of engineering & natural materials and their relationship to environment and how to minimize the environmental impact arising from material disposal with new generation of recyclable-engineered materials.

Pre-requisite: None

### **APME7003 SUSTAINABLE ENERGY HARVESTING TECHNOLOGIES**

This course covers the basic principles and recent advances in energy harvesting materials and technologies, with a focus on the role of materials and nanotechnology in the development of these technologies. The course will cover photovoltaic & bi-functional devices, thermoelectric, piezoelectric, triboelectric and pyroelectric energy harvesting, nuclear energy, water energy, wind energy, and the relevant materials and device considerations.

Pre-requisite: None

### **APME7004 TECHNOLOGIES FOR MATERIALS CHARACTERIZATION**

Introduction of commonly used materials characterization technologies, including their theory of operation, hands-on experience, the measurement process and instrumental analysis of samples.

Pre-requisite: None

### **APME7005 ADVANCED ENERGY STORAGE TECHNOLOGIES**

This course will give a general picture of energy society and different energy storage technologies, while focusing on some major ones (battery, capacitor, hydrogen and fuel cell). Some principles and important progress in energy storage technologies will be introduced in this course.

Pre-requisite: None



### **APME7006 SPECIAL TOPICS IN EMERGING MATERIALS**

In this course, special topics in emerging materials will be presented by students, faculty and guest speakers.

Pre-requisite: None

### **APME7007 ENERGY, ENVIRONMENT AND SUSTAINABLE DEVELOPMENT**

In this course, the concepts and principles for the sustainable development shall be introduced. The impact of energy and environment on the sustainable society shall be discussed. The utilization and recycle of natural resources shall be introduced. The relationship among economics, climate, energy, and environment shall be presented.

Pre-requisite: None

### **APME7008 FUNCTIONAL MATERIALS**

Provide an in-depth education in the field of materials science, an interdisciplinary area of knowledge that includes the study of structures, properties, processing, and applications. It covers traditional structural materials, functional materials, and nanomaterials. The course shows that the behavior of materials is directly linked to their fundamental structures, and how structures and hence properties may be altered through processing. Properties, processing, design and environmental protection and degradation will be considered. Case studies in materials selection will be included and some examples of state-of-the-art applications of novel materials will be given.

Pre-requisite: None

### **APME7009 INTRODUCTION OF SOLID STATE MATERIALS**

In this course, the behavior of atoms and shared electrons in solids will be described by classical physics and quantum mechanics. The discussion of solid with crystalline structure will be one of the emphases. Some properties of crystal such as defects, disorder and thermal vibration will be studied. Then, band theory and motion of electron will be investigated.

Pre-requisite: None

### **APME7010 MATERIALS DESIGN**

This course involves the design of materials from computational methods. Some popular simulations methods in the materials science will be provided. In this course, the students will understand the theory and mechanisms governing the various applications for designing materials and tailoring the properties to meet the needs.

Pre-requisite: None

### **APME7011 MICRO AND NANO SYSTEMS**

This course mainly focuses on the overall introduction to the miniaturization, fabrication, and applications of micro/nano- electromechanical systems (MEMS/NEMS). The fundamental physics and governing formulas will be introduced, along with the typical phenomenon and principle in micro/nano- scales. Overview of the advanced micro/nano- fabrication technologies, e.g. photolithography, will be introduced to describe the fabrication of advanced micro/nano- devices. Some important phenomena in micro/nano- scales will be discussed including sensing, transduction, resonance, and manipulation, etc. Finally, the State-of-the-art applications of micro/nano-systems for interdisciplinary fields such as biomedical sensing, wearable devices, and lab-on-chip systems will be covered.

Pre-requisite: None

### **APME7012 PRINCIPLES OF QUANTUM MECHANICS**

This course introduces the principle of quantum mechanics and its applications in materials. The students will study the knowledge of quantum mechanics, such as schrödinger equation, observables, mechanical quantities expressed by operators and representation transformation, and approximation method. There will be case studies on different materials with their properties related to quantum phenomena such as low dimensional materials, nanostructures and optoelectronic materials.

Pre-requisite: None

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**APME7013 SEMICONDUCTOR MATERIALS AND PHYSICS**

Brief introduction of solid-state physics and crystallography. Mainly focus on the knowledge of semiconductor materials growth technology and semiconductor physics, include the topic below: typical semiconductors and their fabrications, electronic state in semiconductors, defects in semiconductors, the carrier transportation in semiconductors, nonequilibrium carriers in semiconductors and semiconductor junctions. Working mechanisms of typical semiconductor devices are also introduced.

Pre-requisite: None

**APME7098 PROJECT REPORT**

An independent project under the supervision of an academic staff member. An independent project report focuses on combining existing academic theories with an evaluation of a case study or industrial project. The goal of this option is to facilitate the integration of practice with academic research.

Pre-requisite: None

PROGRAMMES OF STUDY

## **Institute of Chinese Medical Sciences**

### **Doctoral Degree Programme**

#### AREA OF STUDY

- Biomedical Sciences

# Doctoral Degree Programme

## Doctor of Philosophy

### • Biomedical Sciences

	Credits
<b>Disciplinary Courses:</b>	
<b>Compulsory Courses:</b>	
CMED8012 Research Ethics	--
CMED8013 Research Writing	1
CEMD8006 Seminars	--
CMED8005 Quality Research in Chinese Medicine	3
<b>Total Credits:</b>	<b>4</b>

	Credits
<b>Required Elective (Choose 1 of the following):</b>	<b>3</b>
CMED8001 Advanced Pharmacokinetics	
CMED8002 Advanced Pharmaceutics	
CMED8003 Functional Food Product Development in Chinese Medicine	
CMED8004 Healthcare Decision Analysis	
CMED8007 Chemistry of Natural Medicine	
CMED8008 Advanced Pharmaceutical Analysis	
CMED8009 Drug Discovery	
CMED8010 Advanced Pharmacology	
CMED8011 Advanced Topics in Medicinal Administration	
<b>Total Credits:</b>	<b>3</b>

	Credits
<b>Doctoral Thesis:</b>	
CMED8999 Doctoral Thesis	18
<b>Total Credits:</b>	<b>18</b>

	Credits
<b>Grand Total:</b>	<b>25</b>

For students admitted without a relevant Master's degree, in addition to the above, students are required to take 1 more Required Elective from the 9 courses listed above.

## INSTITUTE OF CHINESE MEDICAL SCIENCES

**Master's Degree Programmes****Master of Philosophy**• **Chinese Medicinal Science**

<b>Year I</b>	<b>Credits</b>
<b>Compulsory Courses:</b>	
CMED7001 Pharmacology and Safety Evaluation	3
CMED7002 Introduction to Research in Chinese Medicinal Science	3
CMED7008 Quality Control of Chinese Medicine	3
CMED7009 Development of Drugs and Health Products	3
<b>Required Electives (Choose 4 of the following):</b>	12
CMED7003 Medical Technology Management	
CMED7007 Biomedical Informatics	
CMED7010 Pharmaceutical Science	
CMED7011 Systems Biology	
CMED7012 Targets and Models for Drug Screen	
CMED7013 Emerging Materials in Clinical Medicine	
CMED7014 Advanced Natural Products Chemistry	
CMED7015 Progress in Contemporary Study of Chinese Medicine	
CMED7016 Application of Pharmacokinetics and Metabonomics in Drug Development	
CMED7017 Across the Gap between Science and Industry	
CMED7020 Computational Pharmacy	
<b>Total Credits:</b>	<b>24</b>
<b>Year II</b>	<b>Credits</b>
Thesis	12
<b>Total Credits:</b>	<b>12</b>
<b>Grand Total:</b>	<b>Credits 36</b>

# Master's Degree Programmes

## Master of Philosophy

### • Medicinal Administration

Year I		Credits
<b>Compulsory Courses:</b>		
CMED7003	Medical Technology Management	3
CMED7004	Social Medicine	3
CMED7005	International Business and Law for Medicine	3
CMED7006	Introduction to Research in Medical Administration	3
<b>Required Electives (Choose 4 of the following):</b>		12
CMED7007	Biomedical Informatics	
CMED7009	Development of Drugs and Health Products	
CMED7010	Pharmaceutical Science	
CMED7011	Systems Biology	
CMED7012	Targets and Models for Drug Screen	
CMED7018	Bio-Statistics	
CMED7019	Standardization and Quality Management of Chinese Medicine	
CMED7020	Computational Pharmacy	
CMED7021	Research Methodology	
<b>Total Credits:</b>		<b>24</b>
<b>Year II</b>		<b>Credits</b>
Thesis		12
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>Credits</b> <b>36</b>

## INSTITUTE OF CHINESE MEDICAL SCIENCES

# Master's Degree Programmes

## Master of Science

### • Medicinal Administration

#### Year I Credits

##### Compulsory Courses:

CMED7004	Social Medicine	3
CMED7030	Introduction to Medicinal Administration	3
CMED7031	Social and Administrative Pharmacy	3
CMED7032	Health Industry Innovation	3

##### Required Electives (Choose 4 of the following): 12

CMED7007	Biomedical Informatics
CMED7019	Standardization and Quality Management of Chinese Medicine
CMED7033	Application of Medical Statistics
CMED7034	Application Methodology for Medicinal Management
CMED7035	Application of Computer Technology in Pharmacy
CMED7036	Medical Innovation and Technology Management
CMED7037	Health Policy Assessment
CMED7038	Technical English for Healthcare Sector

**Total Credits:** 24

#### Year II Credits

Project Report	6
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**Total Credits:** 6

**Grand Total:** Credits  
30

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## Course Description

### CMED7001 PHARMACOLOGY AND SAFETY EVALUATION

- Principles of Pharmacology.
- Mechanisms of some classes of drugs.
- Pharmacokinetics.
- In vitro and in vivo models for pharmacology research.
- Experimental models for evaluating drugs used in the areas of cancer, cardiovascular diseases, immunology and endocrinology.
- Principle of safety evaluation.
- Experimental models for drug safety evaluation.
- Acute toxicity in drug safety evaluation, suchronic and chronic toxicity studies, genotoxicity, developmental and reproductive toxicity testing, carcinogenicity studies.
- Pharmacological studies and safety evaluation of Chinese medicine.

Pre-requisite: None

### CMED7002 INTRODUCTION TO RESEARCH IN CHINESE MEDICINAL SCIENCE

- Harmless Chinese medicine and medicinal plants.
- Novel technology on the extraction, separation and purification of Chinese medicine.
- Novel dosage forms of Chinese medicine.
- Regulation and accreditation of the quality standard of Chinese medicine.
- Toxicity and adverse effects of Chinese medicine.
- Research, development and trends of the usage of Chinese medicine in clinical prevention, treatment and rehabilitation.

Pre-requisite: None

### CMED7003 MEDICAL TECHNOLOGY MANAGEMENT

- An introduction to:
  - Management.
  - Human resources management.
  - Financial control.
  - Costing study.
  - Audit system.
  - Organization development.
  - Centralization & decentralization.
  - Marketing of pharmaceutical products.
  - Sales strategy of medical products.
- Quality control and surveillance of drugs and health products.
- International requirements on quality, safety and clinical trials of registered drugs.
- Good Guideline Practice (GGP).
- Good Agricultural Practice (GAP) of pollution-free Chinese medicine.
- Good Laboratory Practice (GLP) of non-clinical research.
- Good Clinical Practice (GCP).
- Good Manufacturing Practice (GMP).
- Good Supply Practice (GSP).
- Regulations of herbs and Chinese medicine in China, EU, US and East Asia.

Pre-requisite: None

### CMED7004 SOCIAL MEDICINE

- Theory and methods of social medicine research.
- Interactions between social economy, politics, culture and education.
- Principles and applications of economics on health delivery system.
- Social survey and its assessment.



- Medicine ethics.
- Human interactions and communication in medical practice.
- Analysis of psychological, behavioural and social factors of drug usage and abuse.
- Supply and demand of health services.
- Social responsibility of pharmacist.
- Marketing and regulation of drugs.
- Social welfare systems of China (Macao, Hong Kong, Taiwan) and other major western countries.
- Macro policy analysis and methodology.

Pre-requisite: None

### **CMED7005 INTERNATIONAL BUSINESS AND LAW FOR MEDICINE**

- An introduction to international business and trade.
- Introduction of health economics and pharmaceutical economics.
- Health act & regulation.
- Types of main international legal systems for medicine.
- Regulations and international treaties for the control of medicine.
- Establishment and operation of multi-national, joint-venture pharmaceutical enterprises/companies.
- Legal settlement for business disputes.
- Medical patenting, trademarks and intellectual property.
- Legal rights and obligations of medical wholesalers.
- Censorships and responsibility of advertisements of medical products.
- Registration of Chinese medicine in European and US markets and its related laws.

Pre-requisite: None

### **CMED7006 INTRODUCTION TO RESEARCH IN MEDICAL ADMINISTRATION**

- Medical care and social security systems in Europe, US and China.
- Developmental strategies for medical health economy and medical technology industry.
- Development strategies for medical technology.
- Development and trends of research in surveillance and management of medicine, functional food, cosmetics and other health products in China and worldwide.

Pre-requisite: None

### **CMED7007 BIOMEDICAL INFORMATICS**

Informatics broadly covers the studies of natural and artificial domains for communication, interaction, data, and information, and relating them to the processes of defining, developing, managing, criticising, and refining knowledge. Biomedical informatics focuses on the theories, methodologies, and technologies of informatics that are related to processing biological and medical knowledge. This course mainly introduces important concepts (not trivial details), including those in basic informatics, medical informatics, bioinformatics, and Chinese medicine informatics. Later parts of this course will cover the recent advances in some integrative approaches such as systems biology, translational medicine, and evidence-based/led Chinese medicine.

Syllabus:

- Knowledge representations and computational reasoning
- Knowledge management
- Web, semantic web, and multi-agents
- Practical software development
- Medical knowledge-based technologies
- Medical evidence reasoning
- Medical knowledge discovery
- Algorithms for biological sequences and structures

- Prediction of protein structure and protein interactions
- Analysing data from high-throughput experimentation
- Systems biology and pathway modelling
- Translational research in biomedicine
- Medical research protocols
- Evidence-based/led Chinese medicine

Pre-requisite: None

#### **CMED7008 QUALITY CONTROL OF CHINESE MEDICINE**

- Strategies of quality control for Chinese medicine.
- Optimization of marker for quality control of Chinese medicine.
- Samples preparation for quality control.
- New development for extraction, separation, and purification of major groups of active components.
- Application of modern biology on quality control of Chinese medicine.
- Chemical identification of major groups.
- Significant factors affecting the quality of Chinese medicine.
- Origin and species identification.
- Analysis of residual pesticides, heavy metals and arsenic salts.
- Contemporary analytical techniques in the quality control of Chinese medicine.
- Spectrophotometry, chromatography, mass spectrophotometry and their combined applications.

Pre-requisite: None

#### **CMED7009 DEVELOPMENT OF DRUGS AND HEALTH PRODUCTS**

- Introduction of international herbs, Chinese medicine and its health products.
- Precursor compounds.
- Principle and methods of drug design.
- Drug forms and process control.
- Screening of bioactive ingredients.
- Investigation of cellular and molecular mechanisms.
- Pharmacokinetics.
- Toxicology and drug dependence.
- Integrated clinical evaluation.
- Development of Chinese medicine, health products and cosmetics.
- Functions and safety assessment of health products and cosmetics.
- Development of simulation design on new drugs and health products.

Pre-requisite: None

#### **CMED7010 PHARMACEUTICAL SCIENCE**

- Optimal design of drug preparation.
- Novel medical subsidiary materials.
- Stability of drug preparation.
- Different types of preparations: slow-release and controlled-release preparations, targeted preparations, important and new types of Chinese medicine preparations, biotechnological preparations, etc.
- Manufacturing techniques and instruments used in drug preparation.
- Techniques and their applications in Chinese medicine preparations: inclusion technique, solid dispersion, micro-cyst, liposome, etc.

Pre-requisite: None

#### **CMED7011 SYSTEMS BIOLOGY**

- Principles of system biology.
- Gene expression, regulation and molecular cloning.

- Genomics (that is, organismal DNA sequence) and its application.
- Epigenetics (that is, DNA methylation, histone acetylation and deacetylation, etc.) and its application.
- Proteomics (that is, whole proteins and peptides from organismal, tissue, or cell level) and its application.
- Metabolomics (that is, organismal, tissue, or cell level measurements of all small-molecules) and its application.
- Application of system biology for studying Chinese medicine.

Pre-requisite: None

#### **CMED7012 TARGETS AND MODELS FOR DRUG SCREEN**

- Principles of targets, models and drug screen.
- Drug screen for the samples from different sources.
- High-throughput drug screen.
- High-content drug screen.
- Targets and models for anti-cancer compounds screen.
- Targets and models for anti-microorganism compounds screen.
- Targets and models for neuro-protective compounds screen.
- Targets and models for immune-regulation compounds screen.
- Targets and models for screening compounds for treatment of cardiovascular diseases.
- Screen biological active compounds from Chinese medicine.

Pre-requisite: None

#### **CMED7013 EMERGING MATERIALS IN CLINICAL MEDICINE**

This course aims to provide students a broad understanding of cutting-edge development in biomedical materials, devices and implants, and their emerging applications in clinical medicine. This course will introduce successful stories from bench to bedside (and beyond), discuss exciting breakthroughs in nanomedicine, tissue engineering, cancer therapy and regenerative medicine, as well as outline important regulatory and marketing challenges for these inventions.

Pre-requisite: None

#### **CMED7014 ADVANCED NATURAL PRODUCTS CHEMISTRY**

This course introduces and reviews the basic concepts of natural products chemistry, focusing on modern extraction and purification methods, and advanced spectroscopic methods. Biogenesis pathways of common natural products, as well as the biological activities and pharmaceutical importance of natural products will also be discussed. The course includes lectures and group discussion.

Pre-requisite: None

#### **CMED7015 PROGRESS IN CONTEMPORARY STUDY OF CHINESE MEDICINE**

The objective of this course is to provide an overview of progress in contemporary study of Chinese medicine. The course will consist of a series of lectures based on the specific disciplines of Chinese medicine research, focusing on immunopharmacology, tumor pharmacology, cardiovascular pharmacology, toxicology, chemistry and medicinal pharmacy, etc. The academic staff in ICMS or guest speakers will be recruited to provide lectures in their areas of expertise, and each is responsible for respective course objectives. This course will also have a journal club component, which will enable students to read and present a scientific journal article related to the course.

Pre-requisite: None

#### **CMED7016 APPLICATION OF PHARMACOKINETICS AND METABONOMICS IN DRUG DEVELOPMENT**

This course aims to equip students with practical working knowledge of pharmacokinetics and metabonomics and its application to lead identification and target validation in drug discovery

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and development. Properties that affect pharmacokinetics, pharmacodynamics, and toxicity are discussed (i.e., physicochemical, interactions with human body). Cutting-edge models and technique platforms as well as comprehensive strategies are introduced. Cases examples from the literature illustrate successful lead selection and optimization using pharmacokinetics and metabonomics approaches in drug development.

Pre-requisite: None

#### **CMED7017 ACROSS THE GAP BETWEEN SCIENCE AND INDUSTRY**

There is a big gap between science and industry. This course tries to help student get across this gap by introducing necessary knowledge and skills in the industry. The course covers a wide range of information including: over all view of business of Chinese medical science, a glance of big Pharms, the organization of global company, product development strategies, project management, business communication skills, leadership and team work, knowledge transfer issues, introduction of generic drugs and the GXP in drug development. The course will be useful for those who want to move to industry after graduation and also for those who want to develop health related products in the university.

Pre-requisite: None

#### **CMED7018 BIO-STATISTICS**

This course is designed for master students to understand the basic bio-statics theory and skills. Also the course will teach students how to use the most advanced bio-statics softwares.

Pre-requisite: None

#### **CMED7019 STANDARDIZATION AND QUALITY MANAGEMENT OF CHINESE MEDICINE**

In 'Standardization and Quality Management of Chinese Medicine' course, some basic concepts and theories of standardization will be introduced. The topics include standard substance, uniformity stability, precision, ISO, Total Quality Management (TQM), Six Sigma ( $6\sigma$ ), Lean Manufacturing and Lab certification. Moreover, some cases will also be introduced to show how to design the quality of traditional Chinese medicine or new drugs.

Pre-requisite: None

#### **CMED7020 COMPUTATIONAL PHARMACY**

The course introduces computer application to pharmacy, including expert and knowledge-based systems, artificial intelligence, online pharmacy and medical databases, molecular modeling and computer-aided drug design, computational pharmaceuticals and bioinformatics. In computer laboratory, students will acquire initial skills of molecular modeling. They will also practice in searching online databases. The course will build a bridge between computer science and pharmacy for students.

Pre-requisite: None

#### **CMED7021 RESEARCH METHODOLOGY**

This course aims to help students to master the main research methods for their thesis projects, including qualitative methodology, case study, web content analysis, qualitative data analysis, network visualization and analysis, correlation analysis, multiple regression, etc. Moreover, students will learn how to write and publish academic papers in major journals.

Pre-requisite: None

#### **CMED7030 INTRODUCTION TO MEDICINAL ADMINISTRATION**

This is an introductory course that aims to provide an overview of the discipline of medicinal administration to the students. With an integrative vision of pharmacy and social science, the principles of and knowledge about modern pharmacy management, the approaches to medicinal management analysis, and the applications of evidence-based policy development and strategic planning in medicinal administration will be explained and discussed in details. Real-world case study in areas such as global drug research and development and drug-related laws and regulations (local, national and international) will be used to support the

transformation of basic knowledge to practical skills. The students will also be supported to develop practical writing and presentation skills as important tools to communicate effectively about medicinal administration at international level.

Pre-requisite: None

### **CMED7031 SOCIAL AND ADMINISTRATIVE PHARMACY**

The core functionality of an effective pharmaceutical system is driven by the widespread use and the speedy innovation of pharmaceutical products, as well as the evolving development and application of pharmaceutical services. This prompts an increasing need for individuals who are able to evaluate and leverage the social, psychosocial, political, legal, historic and economic factors impinging upon the availability, accessibility, affordability and acceptability of such products and services. To address such need, this course is designed to equip students with the abilities to apply interdisciplinary theories, knowledge and skills to pharmacy problem solving and pharmaceutical system development for positions of responsibilities and leadership in such sectors as industry, clinical setting, government agencies and educational institutions.

Pre-requisite: None

### **CMED7032 HEALTH INDUSTRY INNOVATION**

Health industry, composed of several components such as health care, pharmaceutical, medical device, community pharmacy, health insurance, etc, is facing multiple challenges and opportunities. This course will introduce the main frameworks of health industry innovation at both meso and micro level. Key management innovation practices will be presented and discussed in this course. Frontier documents in health industry innovation will also be introduced in this course to the students.

Pre-requisite: None

### **CMED7033 APPLICATION OF MEDICAL STATISTICS**

Bio- and medical statistics incorporate a variety of data types. The most common statistics reported are vital (birth, death, marriage, divorce rates), morbidity (incidence of disease in a population) and mortality (the number of people who die of a certain disease compared with the total number of people). Other common statistical data commonly used in the health sector include health care costs, the demographic distribution of disease based on geographic, ethnic, and gender variables, and data on the socioeconomic status and education of health care professionals. This course is designed to enable students to develop essential skills to determine the root causes of health-related problems, identify and collect the relevant data, and interpret the results of data analysis appropriately. Real-world examples will be used to demonstrate the translation of statistical concepts and techniques in problem-solving application in the health sector.

Pre-requisite: None

### **CMED7034 APPLICATION METHODOLOGY FOR MEDICINAL MANAGEMENT**

This course aims to introduce the key application methodologies that are needed for medicinal administration. Both qualitative and quantitative methods will be discussed in detail in this course. Application project design will also be experimented to enhance students' ability to apply different kinds of application methodologies for medicinal administration.

Pre-requisite: None

### **CMED7035 APPLICATION OF COMPUTER TECHNOLOGY IN PHARMACY**

This course introduces computationally algorithmic methods in collection, transformation, storage, organization, distribution, retrieval, visualization, and analysis of pharmaceutical and healthcare information. It provides a unique opportunity for students to learn essential computational chemistry, bioinformatics, artificial intelligence, physiologically-based pharmacokinetic modelling and simulation, computer science and their applications in pharmacy and medicine.

Pre-requisite: None

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**CMED7036 MEDICAL INNOVATION AND TECHNOLOGY MANAGEMENT**

Medical Innovation and Technology Management is a discipline that combines medical sciences, technological innovation and practical management. It will introduce the current laws and policies of medical innovation management, provide basic knowledge and research methods, and train students' management ability in the development of new drug discovery by discussing the frontier issues of medical innovation management.

Pre-requisite: None

**CMED7037 HEALTH POLICY ASSESSMENT**

Health policy assessment is the systematic evaluation of the properties and effects of a health policy, addressing the direct and intended effects of this policy approach, indicated its indirect and unintended consequences, and aimed mainly at policy decision making regarding health services. It includes method of evidence synthesis that considers evidence regarding clinical effectiveness, safety, cost-effectiveness and, health applications, includes social, ethical, and legal aspects of the use of health policy.

Pre-requisite: None

**CMED7038 TECHNICAL ENGLISH FOR HEALTHCARE SECTOR**

Effective gathering, analysing, responding to and communicating about global medical information are pivotal for professionals in the health science and the health industry, especially in the current age of globalisation. This course aims to enable graduate students to understand the essentials of career technical requirements of English communication skills as professionals of 21st century in the health sector. The course content will focus on reading with precise and accurate interpretation of texts, establishing a formal style and objective tone in analysis about a given text, writing business plans and biomedical essays, and conveying a clear and distinct perspective through written and oral presentations. Interesting topics also include the structure of logical paragraphs, the tips to write concisely and avoid ambiguity, and tenses used in various forms of presentation.

Pre-requisite: None

**CMED8001 ADVANCED PHARMACOKINETICS**

The principal objective of the course is to provide the students an in-depth insight into the basic processes that governs the disposition of drugs and other xenobiotics by the human body and the correlation with efficacy and toxicity. The course focuses on the application of the principles of pharmacokinetics solving problems in new drug discovery and development and the development of the herbal medicine products. Real-world cases will be reviewed and formal readings and discussions will occur throughout the course to foster critical thinking and independent learning.

Pre-requisite: Participants need to have knowledge in biological sciences, pharmaceutical sciences, mathematics

**CMED8002 ADVANCED PHARMACEUTICS**

This course introduces the recent progress in the interdisciplinary field of pharmaceutical sciences, with particular emphases on drug delivery systems, nanoscale formulations as well as gene/cell therapy. It enables students to understand how these new theories and technologies can improve drug safety, enhance therapeutic efficacy and translate into new therapeutic modalities.

Pre-requisite: None

**CMED8003 FUNCTIONAL FOOD PRODUCT DEVELOPMENT IN CHINESE MEDICINE**

This course will introduce students to the essential concept and development procedure of functional food in Chinese Medicine (CM). It includes basic knowledge of medicine - food dual purpose CM, functional ingredients in CM, pharmacological activity evaluation and safety evaluation. These lectures will also cover in moderate detail the new technologies and methodologies for the development of functional food from CM. Moreover, this course will introduce selected topics of functional food from other natural products, including functional

fatty acids, mushroom, soy extracts, grape, etc. In addition, functional food regulations in China, USA and Europe will be briefly introduced.

Pre-requisite: None

#### **CMED8004 HEALTHCARE DECISION ANALYSIS**

This course aims to equip research students with the knowledge and skills to conduct evaluation research into the healthcare issues that require evidence-based reasoning and data analytics. Major healthcare cases related to complex diseases will be studied through interactive study and project-based research.

Pre-requisite: Before taking this course, the students should prepare themselves with a working knowledge of basic multivariate statistics and pathophysiology. Some knowledge of statistical software or data mining packages based on R or Python would be an advantage.

#### **CMED8005 QUALITY RESEARCH IN CHINESE MEDICINE**

This subject introduces the novel strategies, new methodologies and state-of-the-art techniques for quality research of Chinese medicines. Strategy of systematic evaluation, advanced instruments and analytical techniques including sample preparation and detection will be emphasized in the course.

Pre-requisite: None

#### **CMED8006 SEMINARS**

The Seminar is a graduate level course designed to give students an opportunity to hear from and interact with experts in their fields of study. ICMS will invite the leading local, national, and international scientists to speak about the latest advances in Biomedical Sciences. Graduate students also present talks about their own research. This experience gives the students practice speaking to the others and allows for the exchange of ideas as they conduct their thesis research.

Pre-requisite: None

#### **CMED8007 CHEMISTRY OF NATURAL MEDICINE**

This course is intended to provide an extensive understanding of chemistry of natural medicine and the cutting-edge techniques in discovering and developing natural medicines. Especially, the isolation, structural elucidation, classification, bioactivities and toxicities of natural medicines and related topics will be discussed in this course.

Pre-requisite: None

#### **CMED8008 ADVANCED PHARMACEUTICAL ANALYSIS**

The principal objective of the course is to provide the students an in-depth insight into the advanced development in strategies and practices in pharmaceutical analysis. The course focuses on the new methodologies and state of the art techniques for including sample preparation, instrumental analysis and data processing for pharmaceutical analysis. Real-world cases will be reviewed and formal readings and discussions will occur throughout the course to foster critical thinking and independent learning.

Pre-requisite: Participants need to have knowledge in analytical chemistry, pharmaceutical sciences, pharmaceutical analysis

#### **CMED8009 DRUG DISCOVERY**

This course will introduce students to the essential concepts and principles of drug discovery. It covers the latest and most outstanding developments on the medicinal chemistry and pharmacology of molecular drug targets, e.g. disease specific proteins, receptors, enzymes, and genes. This course also includes descriptions of current techniques in isolation and structural elucidation, screening techniques and high-capacity instrumentation for increased productivity in the development and discovery of new drugs.

Pre-requisite: None

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### **CMED8010    ADVANCED PHARMACOLOGY**

This course will introduce students to the essential concepts and principles of pharmacology. It includes descriptions of type of receptor, agonist and antagonist activities, analysis of agonist-effect relationships and the intracellular signaling pathways and transcriptional regulation at molecular level by which endogenous and exogenously applied compounds elicit effects. Also, this course will introduce some new research strategies recently developed in pharmacology such as systems pharmacology, network pharmacology. Lastly, this course will emphasize the hot topics of biology such as autophagy, hormesis, epithelial-mesenchymal transition, etc., which could be integrated into pharmacological study of Chinese medicine research.

Pre-requisite: None

### **CMED8011    ADVANCED TOPICS IN MEDICINAL ADMINISTRATION**

This course will introduce various advanced topics in medicinal administration to PhD students, including pharmaceutical care at community pharmacy, pharmaceutical innovation system, basic theories of standardization and quality management (ISO 9001), total quality management (TQM) and relevant case study, data and visualization of data, e-learning in pharmacy education, ICT in pharmaceutical industry, and drug registration and patent linkage. Once completing this course successfully, students can have a wide understanding of cutting-edge theories and methods in medicinal administration, which is crucial to integrate multidisciplinary resources to develop PhD study.

Pre-requisite: None

### **CMED8012    RESEARCH ETHICS**

The on-line course provides students with an understanding of the following issues:

- the need for research ethics and the responsibility of the researcher (the student)
- the most common types of academic dishonesty (such as fabrication and plagiarism)
- how to avoid committing acts of academic dishonesty (such as through using citations and references)
- how the University deals with students who have been proven to have committed acts of academic dishonesty (The University's 'Rules on Handling Student Academic Dishonesty' will be outlined)

Pre-requisite: None

### **CMED8013    RESEARCH WRITING**

The course focuses on helping students to make academic presentations whether verbally (as in a conference) or in writing (as in a paper). Topics include:

- how to write a research proposal
- how to structure a presentation (on paper and in powerpoint)
- tenses used in various parts of a paper presentation
- how to structure clear and logical paragraphs
- how to be concise
- how to avoid ambiguity and different writing styles (for example, conventions for use of numbers, abbreviations, etc.)

Pre-requisite: None



PROGRAMMES OF STUDY

**Institute of Collaborative Innovation**

**Doctoral Degree Programme**

AREA OF STUDY

- Brain and Cognitive Sciences

# Doctoral Degree Programme

## Doctor of Philosophy

- Brain and Cognitive Sciences

		Credits
<b>Compulsory Courses:</b>		
CCBS8000	Research Ethics	--
CCBS8001	Cognition and Brain Sciences	3
CCBS8002	Neuroscience Experimental Methodology	3
CCBS8003	Statistics and Signal Processing for Neuroscience	3
CCBS8999	Doctoral Thesis	18
<b>Total Credits:</b>		<b>15</b>

		Credits
<b>Required Electives (<i>Students are required to take 1 course from the following Required Electives to obtain 3 credits</i>):</b>		
CCBS8004	Neuroscience of Wellbeing	3
CCBS8005	Professional Development	3
CCBS8006	Seminar on Cognitive Neuroscience and Brain-Inspired Artificial Intelligence	3
<b>Total Credits:</b>		<b>3</b>

<b>Grand Total:</b>	<b>30</b>
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## INSTITUTE OF COLLABORATIVE INNOVATION

# Master's Degree Programmes

## Master of Science

- Cognitive Neuroscience

	Credits
<b>Compulsory Courses:</b>	
CCBS7001 Principles of Neuroscience	3
CCBS7002 Cognitive Neuroscience	3
CCBS7003 Brain Stimulation and Neuroimaging Techniques	3
CCBS7098 Project Report	6
<b>Total Credits:</b>	<b>15</b>

	Credits
<b>Required Electives – Group 1 (Students are required to take 2 Required Electives from Group 1 to obtain 6 credits):</b>	
CCBS7004 Magnetic Resonance Imaging	3
CCBS7005 Computational Cognitive Neuroscience	3
CMED7018 Bio-Statistics	3
<b>Total Credits:</b>	<b>6</b>

	Credits
<b>Required Electives – Group 2 (Students are required to take 3 Required Electives from Group 2 to obtain 9 credits):</b>	
AHGC7302 Second Language Acquisition	3
AHGC7400 Clinical Linguistics	3
CCBS7006 Neuroeconomics	3
CISC7013 Principles of Artificial Intelligence	3
CISC7026 Introduction to Deep Learning	3
CISC7202 Practical Machine Learning	3
ECEN7021 Biomedical Transducers and Instruments	3
EDUC7402 Psychology of Learning	3
EDUC7403 Advanced Developmental Psychology	3
EDUC7503 Advanced Exercise Physiology	3
ENGL7004 Psycholinguistics	3
ENGL7005 Sociolinguistics	3
IRTM7036 Cross Cultural Gambling Psychology	3
PYSC7708 Behavioral Addiction	3
<b>Total Credits:</b>	<b>9</b>

<b>Grand Total:</b>	<b>30</b>
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# Master's Degree Programmes

## Master of Science

### • Data Science

	Credits
<b>Compulsory Courses:</b>	
CISC7201      Data Science Programming	3
CISC7202      Practical Machine Learning	3
CISC7203      Database and Data Analysis	3
CISC7204      Data Science and Data Visualization	3
<b>Total Credits:</b>	<b>12</b>

### Specialization: Artificial Intelligence Applications

	Credits
<b>Compulsory Courses:</b>	
CISC7298      Project Report	6
<b>Total Credits:</b>	<b>6</b>

	Credits
<b>Required Electives:</b>	
Choose 4 Required Electives to obtain 12 credits, of which at least 3 Required Electives should be chosen from the same group	12
<b>Total Credits:</b>	<b>12</b>

<b>Group A (At least 3 Required Electives from the same group)</b>	Credits
CISC7013      Principles of Artificial Intelligence	3
CISC7018      Computer Vision and Pattern Recognition	3
CISC7019      Web Mining	3
CISC7021      Applied Natural Language Processing	3
CISC7022      Big Data Processing and Analysis	3
CISC7026      Introduction to Deep Learning	3
CISC7027      Special Topics in Artificial Intelligence Applications	3
ECEN7106      Convex Optimization for Internet of Things Applications	3
ECEN7107      Data Analysis for Internet of Things	3

<b>Group B (At least 3 Required Electives from the same group)</b>	Credits
CIVL7022      Advanced Computational Methods: Principles and Applications	3
CIVL7045      Intelligent Transportation and Vehicles	3
CIVL7206      Innovative Methods and Applications of Information Technology in Construction	3

EMEN7032	Intelligent Theory and Engineering Applications	3
EMEN7039	Prognostics and Health Management of Engineering Systems	3
OCES7001	Ocean Remote Sensing	3
OCES7005	Marine Robotics and Application	3
<b>Grand Total:</b>		<b>30</b>

### **Specialization: Marketing Analytics**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
BAGC7011	Research Methods	3
BAGC7891	Project Report	6
MKTG7010	Marketing Management	3
MKTG7030	Consumer Behavior	3
MKTG7033	Marketing Analytics	3
<b>Total Credits:</b>		<b>18</b>
<b>Grand Total:</b>		<b>30</b>

### **Specialization: Financial Technology**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
BAGC7891	Project Report	6
FINC7054	Introduction to Modern Financial Technology	3
FINC7060	Topics in Data Analytics and Financial Technology	3
<b>Total Credits:</b>		<b>12</b>
		<b>Credits</b>
<b>Required Elective (<i>Choose 2 Required Electives from the following</i>):</b>		
ACCT7060	Financial Statement Analysis for Decision Making	3
BECO7010	Statistics and Financial Econometrics	3
FINC7010	Corporate Finance	3
FINC7026	International Banking and Bank Management	3
FINC7035	Financial Risk Management	3
<b>Total Credits:</b>		<b>6</b>
<b>Grand Total:</b>		<b>30</b>

### **Specialization: Data Strategy and Compliance**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
LAWS7701	Data Applications and Regulation in Digital Society	3
LAWS7702	Big Data Analytics and Compliance in E-business	3
LAWS7703	Data Strategy and Protection in Healthcare and E-governance	3

LAWS7704	Artificial Intelligence and Comparative Law	3
LAWS7791	Project Report	6
<b>Total Credits:</b>		<b>18</b>

<b>Grand Total:</b>	<b>30</b>
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### **Specialization: Precision Medicine**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
HSCI7001	Artificial Intelligence in Medicine	3
HSCI7002	Biomedical Sciences	3
HSCI7003	Digital Bio-medicine	3
HSCI7004	Healthcare Analytics	3
HSCI7998	Project Report	6
<b>Total Credits:</b>		<b>18</b>

<b>Grand Total:</b>	<b>30</b>
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### **Specialization: Computational Linguistics**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
AHGC7315	Language and Linguistics	3
AHGC7398	Project Report	6
<b>Total Credits:</b>		<b>9</b>

		<b>Credits</b>
<b>Required Elective (<i>Choose 3 Required Electives from the following</i>)</b>		
AHGC7039	Computer-aided Translation	3
AHGC7303	Evaluation and Assessment of Language Use	3
AHGC7308	Special Topics in Applied Linguistics I	3
CHLL7101	Methods in Chinese Linguistics	3
CISC7021	Applied Natural Language Processing	3
ENGL7002	Comparative Chinese–English Structure	3
ENGL7006	Syntax – The Structure of English	3
ENGL7022	Corpus Linguistics	3
ENGL7509	Phonology	3
PHIL7101	Topics in Semantics	3
<b>Total Credits:</b>		<b>9</b>

<b>Grand Total:</b>	<b>30</b>
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**Specialization: Analytics in Teaching and Learning**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
EDUC7098	Project Report	6
<b>Total Credits:</b>		<b>6</b>
		<b>Credits</b>
<b>Required Elective (Choose 4 Required Electives from the following)</b>		
EDUC7041	Assessment and Evaluation of Educational Big Data	3
EDUC7042	Data-driven Approach to Educational Administration	3
EDUC7043	Learning Enhancement with Big Data	3
EDUC7044	Quantitative Social Science Research with Big Data	3
SSGC7201	Civic Data Acquisition and Analysis	3
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

**Specialization: Smart Governance**

		<b>Credits</b>
<b>Compulsory Courses:</b>		
SSGC7298	Project Report	6
<b>Total Credits:</b>		<b>6</b>
		<b>Credits</b>
<b>Required Elective (Choose 4 Required Electives from the following)</b>		
EDUC7044	Quantitative Social Science Research with Big Data	3
SSGC7201	Civic Data Acquisition and Analysis	3
SSGC7202	Big Data and Smart Governance	3
SSGC7203	Analysis of Media and Opinion Data	3
SSGC7204	Making Sense of Smart Governance	3
<b>Total Credits:</b>		<b>12</b>
<b>Grand Total:</b>		<b>30</b>

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## Course Description

### Doctor of Philosophy

#### **CCBS8000 RESEARCH ETHICS**

This online course is designed to provide PhD students with the essential research skills needed for a successful career as a researcher. It emphasizes the importance of research ethics and the responsibilities of researchers (students) to maintain academic integrity and prevent dishonesty, such as inadequately citing sources. The course will cover various topics including research methodology, professional ethics, academic integrity, and effective oral presentation and writing techniques. Students will participate in activities such as conducting a literature review, developing a research proposal, and crafting a formal scientific paper-style summary on a topic of their expertise.

Pre-requisite: None

#### **CCBS8001 COGNITION AND BRAIN SCIENCES**

This course aims to build on existing knowledge of cognitive functions and brain science towards a critical appraisal of the current state of scientific debate in cognitive neuroscience. We examine how foundational cognitivist stage models on sensation and perception, attention, (working) memory, reasoning, decision-making, and motor execution have been advanced by evidence from neuroscience. Cognitive functions are furthermore critically examined in their relation to the empirical evidence from the brain sciences on language, consciousness, emotion, social cognition, and action/embodiment. The course involves both reviewing neurocognitive theory and debating current advances in brain and cognition, by focusing on recent critical reviews or meta-analyses. A lab project enables students to elaborate on discussed paradigms to independently seek intersections with their own research topics.

Pre-requisite: None

#### **CCBS8002 NEUROSCIENCE EXPERIMENTAL METHODOLOGY**

The course explores advanced experimental design in neuroscience, focusing imaging tools, physiological recording, and behavioral data collection. Students will master sophisticated methods to address complex neuroscientific questions using a variety of techniques. These include fMRI (functional magnetic resonance imaging), EEG (electroencephalography), fNIRS (functional Near-Infrared Spectroscopy) along with behavioral experiments via E-Prime. The curriculum emphasizes meticulous experimental design, precise execution, and robust data analysis, empowering students to drive forward innovative discoveries in understanding neural function and behavior. Additionally, the course includes the most recent imaging techniques through updated literature, ensuring students are equipped with the latest advancements in the field.

Pre-requisite: None

#### **CCBS8003 STATISTICS AND SIGNAL PROCESSING FOR NEUROSCIENCE**

This course offers a comprehensive exploration of statistical methodologies and signal processing techniques essential for analyzing neuroscience data. This course delves into the intricacies of statistical analysis, covering hypothesis testing, regression, and multivariate methods tailored to neuroscientific research. Additionally, students will master different signal processing techniques to uncover valuable insights from diverse neural signals. Through hands-on experience and theoretical understanding, learners will gain proficiency in computational algorithms, enabling them to process and analyze neural data effectively. This course equips aspiring neuroscientists with indispensable tools to navigate and contribute to the evolving landscape of neuroscience research.

Pre-requisite: None



**CCBS8999 DOCTORAL THESIS**

During the study period, students are required to perform independent research work under the supervision of the thesis supervisor. After successfully completing the qualifying examination and proposal assessment, a written thesis and an oral defense presenting the research findings with intellectual analysis are necessary for the assessment of graduation eligibility by end of study. The PhD thesis need to demonstrate the novelty and significance of the candidate's work.  
Pre-requisite: None

**CCBS8004 NEUROSCIENCE OF WELLBEING**

Neurological and psychological mechanisms involved in maintaining and improving brain healthy conditions, like aging, stress, pain, health-related behaviors. Neurological and psychological mechanisms underpinning pathological psychiatric and neurodegenerative conditions: depression, anxiety disorders, schizophrenia, bipolar disorder, and neurodevelopmental disorders like autism spectrum disorder. Risk factors, prevention and intervention approaches will also be discussed.

Through a critical analysis of scientific research, students will develop the skills to evaluate and interpret neuroscientific studies. The course will also examine the integration of neuroscience findings into clinical practice, including the application of neuroimaging techniques and neuromodulation interventions. By the end of the course, students will have gained a solid foundation in neuroscience and its implications for well-being, enabling them to approach mental health and its disorders from a multidimensional perspective.

Pre-requisite: None

**CCBS8005 PROFESSIONAL DEVELOPMENT**

This course is crucial as it prepares PhD students for diverse career paths, enhances their research and communication skills, and ensures they are well-equipped for the job market and responsible research practices. This course will address issues of professional development with specific attention to cross-disciplinary research in Cognitive and Brain Sciences. It will introduce career paths in different academic and non-academic institutions, the writing of journal articles and grant proposals, and demystify the grant and journal review process. It will also cover how to acquire skill in formal presentations at conferences, how to develop collaborations, how to seek mentoring advice and how to provide mentoring advice to the students, and how to best prepare for the job market. The course will also provide training in the responsible conduct of research. Lastly, the course will feature guest speakers from both academia and industry. These experts will share their research interests and career paths, providing valuable insights and inspiration for students.

Pre-requisite: None

**CCBS8006 SEMINAR ON COGNITIVE NEUROSCIENCE AND BRAIN-INSPIRED ARTIFICIAL INTELLIGENCE**

AI has made significant contributions to the field of neuroimaging, revolutionizing the way medical professionals analyze and interpret complex brain images. In addition, brain information processing principles can be now implemented in novel neural network computational models.

This seminar series is to bring an international multidisciplinary community of neuroscientists to explore recent advances in the data-driven approaches to challenging problems arising in the context of mental health and neurodegenerative disorders. The series also offers seminars on how to create new biological, physical and computational models that bridge the significant gaps between brain science and AI.

Pre-requisite: None

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## **Master of Science - Cognitive Neuroscience**

### **CCBS7001 PRINCIPLES OF NEUROSCIENCE**

Introduction to the mammalian nervous system with emphasis on the structure and function of the human brain. Topics include the function of nerve cells, sensory systems, control of movement and speech, learning and memory, emotion, and diseases of the brain. No prerequisites, but knowledge of biology and chemistry at the high school level is assumed. The course also aims to have students to know the basic knowledge in functional aspects of nervous system organization, psychiatric and neurological disorders and molecular and cellular neurosciences.

Pre-requisite: None

### **CCBS7002 COGNITIVE NEUROSCIENCE**

This course provides an introduction to the neuroscientific study of cognition. Topics surveyed in the course include the neural bases of perception, attention, memory, language, executive function, emotion, social cognition, and decision making. In covering these topics, the course will draw on evidence from brain imaging (fMRI, EEG, MEG), transcranial magnetic stimulation, electrophysiology, and neuropsychology. The course will also consider how knowledge about the brain constrains our understanding of the mind.

Pre-requisite: None

### **CCBS7003 BRAIN STIMULATION AND NEUROIMAGING TECHNIQUES**

This course is one of the core introductory courses of the Programme that give an overview of the methodologies currently at place to study cognition and brain function based on neuroimaging and brain intervention techniques. Methods such as functional near-infrared spectroscopy (fNIRS), electroencephalography (EEG), magnetoencephalography (MEG), transcranial magnetic stimulation (TMS), Transcranial Direct Current Stimulation (tDCS) and Transcranial Alternating Current Stimulation (tACS), and others will be respectively introduced, which can provide the students with new insights into the structure and function of human brain. Nature and origin of electric, magnetic, light responses of human brain will be discussed throughout the course.

Pre-requisite: None

### **CCBS7098 PROJECT REPORT**

A project report is required for all students completing the UM CNS Program. By the nature of this program, the performance of projects cuts across departmental boundaries, with faculty from neurobiology, psychology & neuroscience, radiology, psychiatry, biomedical science, engineering, neurology, biology, and philosophy. Thus, the program explicitly involves collaboration between FAH, FSS, FED, ICMS, FHS, and FBA. Students will join individual labs and be guided by Professors in different faculties. By doing a project, students will synthesize and integrate knowledge from their course work, apply it to a particular topic area, and communicate their ideas and findings through a scholarly written thesis. Additionally, students are encouraged to publish their thesis in academic journals.

Pre-requisite: None

### **CCBS7004 MAGNETIC RESONANCE IMAGING**

In this course, basic MR-physics, spatial encoding, basic pulse sequences, MR image contrast in MR, MR hardware, practical considerations, general clinical applications of MRI, perfusion and diffusion MRI, and clinical MR spectroscopy will be introduced. In addition, introduction to functional MRI (fMRI) will provide students with the basic and practical principles underlying fMRI of the brain. Students will complete the course having an in-depth introduction to neurophysiological mechanisms that couple magnetic resonance phenomenon to task- or stimulus dependent changes in neuronal activity and cerebral metabolism.

Pre-requisite: None

### **CCBS7005 COMPUTATIONAL COGNITIVE NEUROSCIENCE**

This course will introduce a collection of computer simulation techniques useful for investigating a variety of cognitive phenomena involving perception, action, learning, and memory. This course is formatted to support interdisciplinary inquiry, with the backgrounds of students expected to vary broadly across the range of such disciplines as computer science, cognitive science, psychology, and neuroscience, as well as other related fields. The learning of both classic and contemporary methods for cognitive modeling will be facilitated by readings, presentations by class participants as well as by the instructor, homework assignments, a term project, and ample interaction and discussion between attendees.

Pre-requisite: None

### **CMED7018 BIO-STATISTICS**

This course is designed for master students to understand the basic bio-statistics theory and skills. The course will also teach students how to use the most advanced bio-statistics software.

Pre-requisite: None

### **EDUC7402 PSYCHOLOGY OF LEARNING**

This course introduces psychological theories pertinent to the learning of students, and current views of how people learn. Particular focus is placed on linking theories to classroom situations. Topics included are: behavioristic, information- processing, constructivistic, and humanistic theories of learning.

Pre-requisite: None

### **EDUC7503 ADVANCED EXERCISE PHYSIOLOGY**

This course empowers students to critically analyze and apply the latest insights in exercise physiology to enhance their contributions to the field. This course delves into cutting-edge theories and recent advancements in the field of exercise physiology. The lectures encompass topics such as the intricate interplay of muscular and neurological mechanisms in movement control, cardiorespiratory dynamics in response to exercise, and the physiological adaptations induced by exercise training. Additionally, the course covers the methods and key parameters for assessing physiology during exercise, as well as the challenges posed by extreme environments. By engaging with this course, students will refine their skills in both instructing and conducting rigorous scientific research pertaining to physical activity and athletic training.

Pre-requisite: None

### **EDUC7403 ADVANCED DEVELOPMENTAL PSYCHOLOGY**

This course delves into a comprehensive exploration of theories, research, and key concepts in the field of developmental psychology. Building upon foundational knowledge, this advanced-level course offers an in-depth analysis of child development, including cognitive, emotional, and social aspects. Students will critically examine current research findings and theories while exploring the practical applications of developmental psychology in various contexts.

Pre-requisite: None

### **AHGC7400 CLINICAL LINGUISTICS**

This course provides a systematic study of linguistic theories, methods and findings concerning the description of natural language, Language acquisition and learning, intelligibility, normal and impaired speech, language developmental and acquired disorders. Covering areas of human speech development, production and perception, prosody, language variation and bilingualism, students will be able to understand how does brain process language, the effects of neurological disorders and brain injury on language use. They will become familiar with the tools most often used for language, speech and voice analysis, such as FEELtrace (evaluating dynamics of speech), Hoarseness Diagram (properties of normal and pathological voices) and PRAAT (speech and phonetics analyses).

Pre-requisite: None

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#### **ENGL7004 PSYCHOLINGUISTICS**

This course introduces students to the biological, neurological and cognitive bases for language, language development, multilingualism and second language acquisition, and language disorders. It will also deal with some aspects of natural language processing in relation to certain areas of linguistic analysis: phonology, the lexicon, morphology, syntax, semantics, and discourse.

Pre-requisite: None

#### **AHGC7302 SECOND LANGUAGE ACQUISITION**

This course will examine current theories of second language acquisition, in relation to the acquisitional process, developmental stages, and external factors conditioning acquisition, including the effects of the first language, age of acquisition, motivation, instructional context and the nature of input. Topics discussed will include the critical period hypothesis, cross-linguistic influences, individual differences such as cognition, affect and language aptitude.

Pre-requisite: None

#### **ENGL7005 SOCIOLINGUISTICS**

This course introduces key concepts and approaches to the sociolinguistics of bilingualism and multilingualism, with a particular focus on Chinese communities such as Macau, Hong Kong, Singapore, Taiwan and other Chinese cities. Topics covered include language use in bilingual/multilingual communities, language choice, language maintenance and shift, language attitudes and language ideologies, and language in globalization. Students are encouraged to reflect on their own bilingual or multilingual experience to apply the theories or models critically in their own social contexts. Not only classic papers but also current research articles will be discussed in the hope of providing the necessary background for students who consider writing their MA theses on topics of societal bilingualism or multilingualism.

Pre-requisite: None

#### **ECEN7021 BIOMEDICAL TRANSDUCERS AND INSTRUMENTS**

This essentially interdisciplinary course aims to introduce students the basic principles & techniques for biomedical transducers and instrumentations. This course covers sensing and measurement for qualitative description and quantitative analysis in biomedical engineering field mainly on noninvasive techniques.

Pre-requisite: None

#### **CISC7026 INTRODUCTION TO DEEP LEARNING**

This course introduces Deep Learning (DL) basics, methods, and algorithms, with hands-on practice using modern DL library tools (e.g., PyTorch). After the introductory lecture on deep learning, the course first covers the fundamental of neural networks, including universal approximator theory, learning neural networks, backpropagation, optimization, stochastic gradient descent, and tricks on training neural networks, and then focuses on typical neural network architectures, including Convolutional Neural Networks, Recurrent Neural Networks, and Generative Neural Networks.

Pre-requisite: For student of MSc Cognitive Neuroscience to take this course, basic knowledge is required in 1) Math, in particular, linear algebra, and 2) Programming skills with python

#### **CISC7013 PRINCIPLES OF ARTIFICIAL INTELLIGENCE**

Overview of Artificial Intelligence Application Areas, Languages and Programming Techniques for Artificial Intelligence, Problem Solving, Knowledge-based Systems, Knowledge Representation, Planning, Machine Learning, Natural Language Processing, Genetic Algorithms.

Pre-requisite: None

#### **CISC7202 PRACTICAL MACHINE LEARNING**

This course introduces Machine Learning (ML) basics, methods, and algorithms, with a

significant amount of hands-on practice using modern software tools (e.g., Scikit-learn and PyTorch). After the first introductory lecture on machine learning, the course covers four key topics of ML: 1) regression techniques including linear regression, ridge and lasso regression, nearest neighbor and kernel regression; 2) classification techniques including logistic regression decision trees, boosting and bagging, SVM and Naïve Bayes; 3) clustering techniques including k-means, hierarchical clustering, DBScan, and mixture models; and 4) deep learning techniques including neural network basics, convolutional neural networks, and generative neural networks.

Pre-requisite: For student of MSc Cognitive Neuroscience to take this course, basic knowledge is required in 1) Math, in particular, linear algebra, and 2) Programming skills with python

### **PSYC7708 BEHAVIORAL ADDICTION**

This course aims to be informative and practical. It focuses on developing learners' overall knowledge on the history, prevalence, theories, research, assessment, and interventions of different types of behavioral addiction, including gambling disorder, gaming disorder, internet/smartphone addiction, compulsive eating and buying, and workaholism. Specific attention will be paid to their biological, neurological, and cognitive features and mechanisms. Students will learn to identify different types of risk factors for the development and maintenance of behavioral addiction. Through team project and experiment participation, students will have hands-on experience of theory application and use of common assessment tools in the Chinese context.

Pre-requisite: None

### **IRTM7036 CROSS CULTURAL GAMBLING PSYCHOLOGY**

This course focuses on the application of psychological knowledge to gambling behaviors. Topics include motivations, decision-making strategies, cognitive heuristics and biases, group and social influences, and pathological addictive gambling behaviors. Students will be able to better formulate organizational strategies for integrated resorts and enhancing both their communication and analytical skills.

Pre-requisite: None

### **CCBS7006 NEUROECONOMICS**

Neuroeconomics is the study of human behavior, decision making in particular, by adopting the value-based approach in economics and through the use of the neuroscientific methodologies. Behavioral economics is a confluence of economics, psychology and neuroscience. The course will start with some normative theory from economics. Yet decision makers do not behave "rationally" as required by the classical economic theory. These psychological insights will be discussed based on the theoretical frameworks in behavioral economics such as behavioral decision theory and behavioral game theory. We will then survey the neuroscientific studies motivated by these theories.

Pre-requisite: None

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## **Master of Science - Data Science**

### **CISC7201 DATA SCIENCE PROGRAMMING**

This course is designed for students who are new to the world of data science. After the introduction of some basic arithmetic, variables, and data structures in Python, students will start to learn how to collect and extract data from real datasets. Some data analytical skills using the control flows and Python packages (e.g., NumPy, SciPy, Pandas, etc.) will be introduced. To address the needs of big data processing, some distributed computing frameworks (e.g., Spark) and visualization tools with Python will be discussed. Students may apply some basic learning algorithms with Python packages (e.g., scikit-learn) to extract knowledge from data. In response to the evolving demands of the AI era, some AI assisted programming tools will also introduced.

Pre-requisite: None

### **CISC7204 DATA SCIENCE AND DATA VISUALIZATION**

This course is designed to enable students to learn the significance of data visualization in data science and big data analytics, and develop knowledge and skills to present quantitative data using data visualization tools. This course emphasizes on the practical aspects of data science with a focus on using R or Python programming language to process data, produce visualizations, and interpret these visualizations. Students will learn the practice of data cleaning, reshaping of data, basic tabulations, aggregations and visual representation in order to increase the understanding of complex data and models.

Pre-requisite: None

### **CISC7203 DATABASE AND DATA ANALYSIS**

This course is designed to enable students to learn the database and data mining concepts and techniques for big data analytics and development in different domains. The course concentrates on the practical issues of database and data mining for solving big data problems. The content includes data modeling in database and data warehouse, introduction to database management system and data mining applications. Students will learn the skills of database modeling, querying, and programming, as well as the use of database management system and data mining applications.

Pre-requisite: None

### **CISC7202 PRACTICAL MACHINE LEARNING**

This course introduces Machine Learning (ML) basics, methods, and algorithms, with a significant amount of hands-on practice using modern software tools (e.g., Scikit-learn and PyTorch). After the first introductory lecture on machine learning, the course covers four key topics of ML: 1) regression techniques including linear regression, ridge and lasso regression, nearest neighbor and kernel regression; 2) classification techniques including logistic regression decision trees, boosting and bagging, SVM and Naïve Bayes; 3) clustering techniques including k-means, hierarchical clustering, DBScan, and mixture models; and 4) deep learning techniques including neural network basics, convolutional neural networks, and generative neural networks.

Pre-requisite: Introduction to Data Science Programming

## ***Specialization A: Artificial Intelligence Applications***

### **CISC7013 PRINCIPLES OF ARTIFICIAL INTELLIGENCE**

Overview of Artificial Intelligence Application Areas, Languages and Programming Techniques for Artificial Intelligence, Problem Solving, Knowledge-based Systems, Knowledge Representation, Planning, Machine Learning, Natural Language Processing, Genetic Algorithms.

Pre-requisite: None

**CISC7018 COMPUTER VISION AND PATTERN RECOGNITION**

This course introduces the fundamentals and advanced topics of pattern recognition for postgraduate students. It emphasizes both theory and applications of pattern recognition. Topics include overviews of general pattern recognition techniques, statistical decision theory, linear discriminant functions, multilayer neural networks, supervised learning, unsupervised learning and clustering, and applications of pattern recognition (such as biometrics and multimedia database retrieval.)

Pre-requisite: None

**CISC7019 WEB MINING**

The course will cover the fundamental concepts, principles and algorithms in the area of Web Mining. It will firstly give an introduction to the concepts of the traditional information retrieval systems and the principles of web search engines, then, the course will extensively discuss techniques and algorithms of web mining, including Link-Base analysis, web page classifications, web advertisement, recommendation algorithms, web information extractions, web image indexing. The course also requires each student to complete a related course project.

Pre-requisite: None

**CISC7021 APPLIED NATURAL LANGUAGE PROCESSING**

This course covers both the fundamental and advanced topics in Natural Language Processing(NLP), which deals with the application of computational models to text data. In this course, the core tasks in natural language processing will be examined, including minimum edit distance, language modelling, N vie Bayes, Maximum Entropy, text classification, sequence labelling, POS tagging, syntax parsing and computational lexical semantics. Modern NLP applications will be explored such as information retrieval, and statistical machine translation. Students will learn how to formulate and investigate research questions on related topics.

Pre-requisite: None

**CISC7022 BIG DATA PROCESSING AND ANALYSIS**

This course introduces the latest development of data engineering techniques, including data query processing (e.g., multi-dimensional data, sequence data, and spatial-temporal data) in cloud computing and HPC environments. Students will learn study and learn how to formulate and investigate the state-of-the-art problems and solutions on related topics.

Pre-requisite: None

**CISC7026 INTRODUCTION TO DEEP LEARNING**

The course introduces Deep Learning (DL) basics, methods, and algorithms, with hands-on practice using modern DL library tools (e.g., PyTorch). After the introductory lecture on deep learning, the course first covers the fundamental of neural networks, including universal approximator theory, learning neural networks, backpropagation, optimization, stochastic gradient descent, and tricks on training neural networks, and then focuses on typical neural network architectures, including Convolutional Neural Networks, Recurrent Neural Networks, and Generative Neural Networks.

Pre-requisite: None

**ECEN7106 CONVEX OPTIMIZATION FOR INTERNET OF THINGS APPLICATIONS**

This course focuses on convex optimization with applications to wireless communication systems, information theory, signal processing, control systems and machine learning. The first part will be on the theory of convex optimization--recognizing convex sets, convex functions, convex optimization problems and duality. The second part of the course will be on algorithms for solving convex optimization problems. This course is crucial to students and researchers in the above fields of engineering.

Pre-requisite: None

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**ECEN7107 DATA ANALYTICS FOR INTERNET OF THINGS**

This course is an introductory course on data analytics and its application in IoT. It covers three major topics: 1) Primary data analytics theory including classification, regression, principal component analysis, etc.; 2) Hands on data analytics experiences with NumPy, Pandas, Matplotlib, & Scikit-learn packages; and 3) Applications in IOT (with a special example on buildings energy systems), in which comprehensive experiments with real data will be included. In this course, students will learn systematic knowledge on data analytics and Python. They will also gain solid hands-on experiences in using Python to analyze IOT data.

Pre-requisite: None

**CISC7027 SPECIAL TOPICS IN ARTIFICIAL INTELLIGENCE APPLICATIONS**

This course introduces special topics and advanced technologies in Artificial Intelligence Applications. The detailed contents may change from year to year depending on current developments and teacher specialization.

Pre-requisite: None

**CIVL7045 INTELLIGENT TRANSPORTATION AND VEHICLES**

This course explores the cutting-edge field of Intelligent Transportation and Vehicle Systems, focusing on the integration of advanced technologies with transportation and vehicular systems to enhance performance, safety, and sustainability. Topics include autonomous vehicles, traffic management systems, vehicle-to-vehicle communication, and smart infrastructure.

Pre-requisite: None

**CIVL7022 ADVANCED COMPUTATIONAL METHODS: PRINCIPLES AND APPLICATIONS**

This is an introductory course on advanced computational methods for civil and coastal dynamical system analysis. The methods are potentially applied to coastal city vulnerability and resilience analysis, system modeling and updating, dynamical system identification, structural reliability and control, statistical analysis and uncertainty quantification, and more. Students will learn foundational knowledge and principles of advanced computational methods. Also, the students will be equipped with exploring state-of-the-art computational tools and methods to enter the corresponding research fields.

Pre-requisite: None

**CIVL7206 INNOVATIVE METHODS AND APPLICATIONS OF INFORMATION TECHNOLOGY IN CONSTRUCTION**

This course introduces innovative technologies in the construction industry. It covers the advanced developments in construction management strategies, commercial software and digital tools, industrialization techniques, infrastructural systems and facilities, and novel construction methods and materials.

This course also covers the applications of information technology for construction management. Topics include introduction to both well-established information technology solutions and emerging trends. The course employs a combination of lecture and outside reading, and it depends on demonstrations of various software products in each category. Moreover, speakers from various construction companies are invited to discuss the latest implementations in representative construction projects.

Pre-requisite: None

**EMEN7032 INTELLIGENT THEORY AND ENGINEERING APPLICATIONS**

This course introduces the fundamentals of intelligent systems technologies and their broad engineering applications, involving essential topics such as Proportional-Integral-Derivative (PID) control, engineering optimisation, and modeling and control of dynamic systems using neural network techniques. It will introduce the principles of knowledge-based systems, fuzzy logic, artificial neural networks, evolutionary computing and explore how intelligent machines and automation processes could benefit from the application of these technologies. It will also discuss knowledge representation, knowledge acquisition, decision making mechanisms,



learning and machine learning, as well as highlight the applications of these technologies in various engineering domains, with particular emphasis on their role in the optimisation of automation processes, control engineering and robotics.

Pre-requisite: None

### **EMEN7039 PROGNOSTICS AND HEALTH MANAGEMENT OF ENGINEERING SYSTEMS**

This course introduces the concepts, methods and applications of prognostics and health management (PHM) for engineering system. A variety of tools and techniques for developing health management and monitoring of components and systems will be discussed. Topics include sensor signal acquisition, signals processing, feature extraction, fault diagnosis, data driven prognostics models, reliability, intelligent maintenance, and applications of artificial intelligence in prognostics and health management.

Pre-requisite: None

### **OCES7001 OCEAN REMOTE SENSING**

This course is designed to introduce students to important concepts and fundamental principles in remote sensing and applications in oceans and coastal environments. Topics cover sensors, microwaves, image analysis, applications of remote sensing in oceans and coastal area, and application of artificial intelligence in ocean remote sensing.

Pre-requisite: None

### **OCES7005 MARINE ROBOTICS AND APPLICATION**

This course introduces the broad spectrum of marine vehicles and their applications in ocean environments, the fundamental principles of autonomous underwater and surface vehicles, as well as theoretical and practical design considerations for marine robotic systems.

Pre-requisite: None

### **CISC7298 PROJECT REPORT**

The Project Report is designed to integrate academic theories and cutting-edge technologies through a comprehensive analysis of a case study or academic project. This approach aims to equip students with a structured methodology for problem-solving, as well as to enhance their professional research and development capabilities and project management expertise. The overarching objective is to bridge the gap between theoretical knowledge and practical application, ensuring that academic insights are effectively translated into real-world solutions. Students may engage in collaborative visits to industrial partners, with the alignment of these visits to their project report topics. These interactions provide students with firsthand insights, enhancing the content and relevance of their project reports.

Pre-requisite: None

## ***Specialization B: Marketing Analytics***

### **MKTG7010 MARKETING MANAGEMENT**

This course seeks to equip students with the key conceptual, analytical and problem solving skills to address marketing problems and decisions. Specifically, it introduces students to various marketing analyses (customer, competitor and company analysis) and marketing strategies. Tools and methods used in planning and implementing the four Ps (product, price, place and promotion) will be explored. This course integrates theory and practice within the context of organizations operating locally and globally.

Pre-requisite: None

### **MKTG7030 CONSUMER BEHAVIOR**

The purpose of this course is to study the process of consumer decision-making and its determinants, and the resulting implications for marketing strategy. Concepts and theories covered in this course are essential for consumer analysis and the development of effective marketing strategies. A strategic orientation will permeate most facets of this course. At the

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same time, knowledge of consumer behavior requires an understanding of important theoretical concepts borrowed from fields such as social psychology, consumer psychology, and experimental psychology.

Pre-requisite: MKTG 7010 Marketing Management

### **MKTG7033 MARKETING ANALYTICS**

This course is designed to help students understand the development of marketing data in the big data era and the value of such data in marketing decision making. Students will be introduced the broad range of marketing data available to businesses, ways to gain insights from the data and convert insights into profitable customer acquisition, retention and growth efforts. Important marketing data usages (e.g., customer behavior prediction, customer value evaluation, social listening, etc.) are discussed using examples from different industries. Issues of data privacy and implementation challenges in big data marketing will also be explored.

Pre-requisite: MKTG 7010 Marketing Management

### **BAGC7011 RESEARCH METHODS**

The course provides postgraduate business students with the fundamental analytical skills that they need for their project report, as well as a good understanding of the overall research process. The course guides students through every step of a research project, from getting started to analyzing data and writing a mock project report. It provides enhanced coverage of quantitative methods available for a variety of business topics, and contains demonstrations of the use of statistical software in a wide range of business research.

Prerequisite: None (for students of Master of Science in Data Science (Big Data and Analytics in Marketing))

### **BAGC7891 PROJECT REPORT**

This Project Report gives the students an opportunity to apply the knowledge obtained from their previous studies in data science and their field of specialization. Students will be required to identify existing practical problems in their field of specialization. To develop solutions for the problems identified, they need to conduct detailed literature review, design appropriate research method, gather relevant data, analyze their data using big data analytic techniques, interpret their findings, and finally write up the entire project report. Subject to the endorsement of the specialization, students have the option to engage in a collaborative visit to our industrial partners, enabling them to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.

Pre-requisite: None (for students of MSc in Data Science (Marketing Analytics) Programme)

## ***Specialization C: Financial Technology***

### **FINC7010 CORPORATE FINANCE**

This course offers students a more advanced understanding of important concepts in the field of corporate finance. It covers basic topics including capital budgeting, alternative valuation methods, capital structure decisions, corporate payout policy, securities offering decisions, as well as more advanced topics (optional) such as corporate governance, mergers and acquisitions, and corporate risk management. The objective of this course is to provide students with essential tools to study more advanced courses in finance.

Pre-requisite: None (for Master of Science in Data Science (Financial Technology))

### **FINC7026 INTERNATIONAL BANKING AND BANK MANAGEMENT**

This course is structured around the microeconomic problems of financial management of banking firms. It focuses on decision making and offers a unique approach to understanding commercial bank management. Topics to be covered include banking trends and competition, performance analysis, liquidity planning, interest rate risk management, credit risk analysis, cost of funds, and capital management. Both domestic and international banking activities will be examined. The objective of this course is to provide the student with the conceptual framework necessary to analyze and comprehend the current problems confronting managers

of commercial.

Pre-requisite: FINC7010 Corporate Finance/FINC7011 Managerial Finance

### **FINC7035 FINANCIAL RISK MANAGEMENT**

This course focuses on risk management techniques in multinational corporations and credit risk management. A strand of risk management topics would be covered such as foreign exchange, money market instruments, derivative products, risk exposure of corporations, measurement of exposure, and risk management in financial institutions. The credit risk will discuss various economic and financial factors that affect credit quality of corporations, evaluating corporation's debt servicing ability and their likelihood of default. Topics covered will include business and financial risk analysis, debt covenants, security structures, credit scoring and credit rating models.

Pre-requisite: FINC7010 Corporate Finance

### **FINC7054 INTRODUCTION TO MODERN FINANCIAL TECHNOLOGY**

The financial industry is undergoing profound changes in the past several years. With the arrival of new technologies, financial services firms are increasingly using these new technologies to increase their efficiency, develop new businesses and services, and revolutionize their marketing practices. The lines between financial services and technology firms have also blurred, as we are seeing more and more technology companies venturing into the finance industry, particularly in China.

This course aims to provide you with an overview of FinTech and its implications within the finance industry and beyond. We will review companies in the FinTech industry, their businesses, products, and technologies. We will also cover the basic technologies that power the FinTech revolution, such as Artificial Intelligence (AI), Blockchain (B), Cloud Computing (C), and Big Data (D). We will also discuss FinTech's current status and future trends. After this course, you will have a basic understanding of the FinTech landscape and be ready to explore more about it.

Pre-requisite: FINC7010 Corporate Finance

### **FINC7060 TOPICS IN DATA ANALYTICS AND FINANCIAL TECHNOLOGY**

This course introduces to students the advanced statistical and decision analysis tools. It emphasizes on the applications of data analytics techniques in business practices. Students will learn the intuition behind the methods and build hands-on experiences using Python, which is the most popular programming tool with versatile applications in finance and economics.

Pre-requisite: None

### **ACCT7060 FINANCIAL STATEMENT ANALYSIS FOR DECISION MAKING**

This course aims to demonstrate how financial statements can be reformulated, analyzed and interpreted for decision making. It first identifies information sources that analysts frequently employ in financial statement analysis and examines the steps of the financial statement analysis framework. It then discusses the objective of financial reporting and how financial reporting standards affect security analysis and valuation. The course will cover important tools and techniques used in financial analysis including activity, liquidity, solvency, profitability and valuation ratios, describe the relationships among those ratios and evaluate real life companies using ratio analysis. It also demonstrates the application of DuPont analysis of return on equity, and other ratios especially used in equity analysis and credit analysis. Finally, it provides a framework for considering potential analyst adjustments that are necessary when comparing companies that use different accounting methods or estimates.

Pre-requisite: None (for Master of Science in Data Science (Financial Technology))

### **BECO7010 STATISTICS AND FINANCIAL ECONOMETRICS**

This course introduces the basic tools with the aid of data for decision making in finance. It covers introductory probability, decision analysis, basic statistics, regression, simulation, linear and nonlinear optimization, and discrete optimization. Computer Programming exercises,

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cases, and examples, deliver in SAS® (by the SAS Institute Inc.) are drawn from asset pricing, market microstructure, derivatives, and other functions.

Pre-requisite: None

### **BAGC7891 PROJECT REPORT**

This Project Report gives the students an opportunity to apply the knowledge obtained from their previous studies in data science and their field of specialization. Students will be required to identify existing practical problems in their field of specialization. To develop solutions for the problems identified, they need to conduct detailed literature review, design appropriate research method, gather relevant data, analyze their data using big data analytic techniques, interpret their findings, and finally write up the entire project report. Subject to the endorsement of the specialization, students have the option to engage in a collaborative visit to our industrial partners, enabling them to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.

Pre-requisite: Research Methods, Marketing Analytics [for students of MSc in Data Science (Big Data and Analytics in Marketing)] & FINC7010 Corporate Finance AND FINC7054 Introduction to Modern Financial Technology [for students of MSc in Data Science (Financial Technology)]

## ***Specialization D: Data Strategy and Compliance***

### **LAWS7701 DATA APPLICATIONS AND REGULATION IN DIGITAL SOCIETY**

The evolution of data science and its applications in a digital society raise various legal and regulatory questions. This course aims to introduce the legal concepts and principles necessary to understand the pertinent rights and obligations as well as compliance requirements in the development and use of data applications. The course will identify the key legal issues facing diverse data applications and technologies and introduce applicable legal and regulatory regimes. The course will examine the scope and limitations of the relevant domestic and international laws governing the data applications within a digital society and in the context of cross-border transactions.

Pre-requisite: None

### **LAWS7702 BIG DATA ANALYTICS AND COMPLIANCE IN E-BUSINESS**

Data analytics is emerging as a fundamental part of strategic planning and decision making in modern businesses. The success of a data-analytics embedded e-business strategy depends not only on proficient analytical models but also on the competence to address challenges and externalities that are beyond the control of individual enterprises. This course is aimed at nurturing the competence to identify and address various legal and compliance requirements impacting relevant data strategies. Legal and regulatory issues facing data applications in e-business including in business-to-business and business-to-consumer sectors and effective means to prevent and resolve related legal disputes will be covered.

Pre-requisite: None

### **LAWS7703 DATA STRATEGY AND PROTECTION IN HEALTHCARE AND E-GOVERNANCE**

The course is designed to introduce students to gain an in-depth understanding of e-governance with an emphasis on regulatory frameworks for data security, information protection, and transparent governance. It examines legal challenges associated with the use of data collected by various smart applications for smart city plans. The course also gives a focused examination of digitalized healthcare and biomedical research, and the regulations that govern them. It addresses not only privacy and security matters but also other important challenges, such as those related to data quality and data analysis in precision medicine and clinical research.

Pre-requisite: None

## **LAWS7704 ARTIFICIAL INTELLIGENCE AND COMPARATIVE LAW**

Developing effective Artificial Intelligence (AI) applications entails the competence to identify relevant opportunities and challenges and address them strategically. This course aims to explore the nexus between AI and law and introduce contemporary and emerging issues in the field. It will study specific AI applications and identify related legal challenges and compare how key jurisdictions regulate such challenges. The course will cover potential legal risks and liability facing usage of AI and explore precautionary measures to limit liability. Contemporary legal issues in AI including data protection and privacy obligations, Intellectual Property Rights and regulation of algorithms will be comparatively studied.

Pre-requisite: None

## **LAWS7791 PROJECT REPORT**

The Project Report provides the opportunity to demonstrate the competence to systematically identify and analyze the fundamental relationship between law and data applications in a specific context. Students will identify, study, and critically examine key inter-disciplinary issues arising in the context of a chosen topic or a case study approved by the Faculty. The students may conduct a fundamental or applied research to seek solutions to legal and policy challenges facing formulation and implementation of effective data strategies and applications. A law faculty member competent in the selected legal field will supervise the project research and may, in appropriate circumstances, support the research in conjunction with another faculty member or other potential collaborators including from the legal profession or the industry, subject to the relevant laws, regulations and approval.

Pre-requisite: None

## ***Specialization E: Precision Medicine***

### **HSCI7001 ARTIFICIAL INTELLIGENCE IN MEDICINE**

This course introduces the concept of artificial intelligence (AI) in medicine, the associated big data analysis, and analytic programming. Medical AI is the use of algorithms and software to approximate human cognition in the analysis of complex medical data including those in global public health. AI is currently transforming healthcare delivery and is augmenting doctors' roles in medicine. This course covers analytic programming (predominately in R), big data analysis, and application for AI in medicine and global public health. The goal of this course is to develop students' understanding and to confer hands-on analytical skills for AI in medicine on them. It also covers topics in global public health.

Pre-requisite: None

### **HSCI7002 BIOMEDICAL SCIENCES**

This course introduces the essential biological knowledge to students with non-biology background in order for them to understand, explain and evaluate the basic concepts of precision medicine. It uses cancer as a model disease to illustrate how precision medicine can provide better, individually tailored healthcare solutions to patients. The course introduces the methods of discovering the causes of cancer, the techniques to perform accurate diagnoses, the mechanisms of cancer therapies, and the different strategies for cancer treatment. In addition, basic knowledge on immunology, microbiology and infectious diseases will be introduced in this course, topics such as "Viruses," "Bacteria," "Immune System," "DNA analysis" will be added to the existing topics.

Pre-requisite: None

### **HSCI7003 DIGITAL BIO-MEDICINE**

This course introduces the knowledge in digital medicine, technologies, and the associated big data and analysis to students with non-biology background, focusing on the public health issues with the global insights. Digital medicine is the convergence of digital technologies (including genomic technologies) with medicine, living, and society to enhance the efficiency of medicine delivery and make medicines more personalized and precise. This course covers high-throughput (HT) genotyping, HT phenotyping, artificial intelligence, big data analysis, public

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database, proteomics and other omics. The goal of this course is to develop students' understanding of digital medicine and required analytical skills for the exciting possibilities towards creating a new paradigm of precision medicine.

Pre-requisite: CISC7204 Data Science and Data Visualization

#### **HSCI7004 HEALTHCARE ANALYTICS**

Healthcare analytics is one of the fastest growing industries in our economy. Healthcare analytics allows for the examination of patterns in various healthcare data in order to determine how clinical care can be improved. This course introduces the essential elements of healthcare analytics to students with non-healthcare background, and provides them with an overview of population health informatics, clinical informatics, imaging informatics, mobile healthcare and their contributions to precision medicine. The goal of this course is to develop students' understanding of healthcare analytics and analytical skills to comprehend healthcare data.

Pre-requisite: None

#### **HSCI7998 PROJECT REPORT**

An individual project provides the opportunity to plan and execute a significant project of research, investigation or development, and to integrate learning and put the techniques learnt throughout the master programme into practice under an academic supervision. Using large datasets from academia, hospitals, industry or government, students carry out high-level coordinated academic and practical work to solve a real-world problem in the field of biomedical sciences, medicine or healthcare, including collecting and processing real data, designing and implementing data science methods and tools, and applying, evaluating and critically assessing data analysis, visualization and prediction techniques to solve the real problem. Enabling students to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.

Pre-requisite: None

### ***Specialization F: Computational Linguistics***

#### **AHGC7315 LANGUAGE AND LINGUISTICS**

This course introduces key concepts and approaches to the study of language and linguistics. It provides an overview, with basic terminology, of the major subfields of linguistics, investigating the nature, history, and structure of language and how language relates to the mind, society, and education. It provides the basis of investigation in subsequent courses in the Computational Linguistics program. Students are encouraged to reflect on their own language experience and apply the theories covered in the course to their own linguistic context.

Pre-requisite: None

#### **ENGL7002 COMPARATIVE CHINESE - ENGLISH STRUCTURE**

This course involves the comparative description and analysis of the respective sound structures, morphological structures, and syntactic structures of Chinese and English from the perspective of current linguistic theory. Topics addressed may include tone, stress, and rhythm in the languages, prosody, word formation, phrasal and clausal structure, interrogation, embedding, conjoining, comparison, focusing devices, the auxiliary, and temporal and aspectual representation.

Pre-requisite: None

#### **ENGL7006 SYNTAX - THE STRUCTURE OF ENGLISH**

The course is a more advanced study of English syntax assuming some basic knowledge of English grammar. It describes and analyses the structure of English from a current syntactic perspective. It deals with constituency, phrase structure of different kinds and clause structure. It applies theory to practical issues in English syntax and evaluates competing analyses.

Pre-requisite: None

### **ENGL7022 CORPUS LINGUISTICS**

This course will introduce students to the methods and issues involved in corpus linguistics. It aims to demonstrate the practical use of online corpora to explore questions asked by scholars of language, and to address some of the central issues raised by corpus design and analysis. Students will familiarize themselves with the research use of online corpora and the construction and analysis of original corpora using freeware concordance tools. At the same time, the classes will consider various aspects of language analysis concerning lexis and grammar, and questions of language variation and change.

Pre-requisite: None

### **ENGL7509 PHONOLOGY**

This course constitutes an overview of phonological theory and analysis. While data from a range of languages will be discussed, however, the focus will be on English. The topics covered will include phonological rules, representations, underlying forms, derivations, and justification of phonological analyses. Attention will also be given to the interaction of phonology with morphology and syntax, syllable structure and stress. The course will emphasize practical skills with problem sets.

Pre-requisite: None

### **AHGC7039 COMPUTER-AIDED TRANSLATION**

This course reviews state-of-the-art technology in translation. In addition to Translation Memory, which allows users to leverage existing data, deep learning technologies have allowed Machine Translation to achieve fully automatic translations for some genres of writing. The course will include an extensive practical component using these technologies in addition to exploring assessment of Machine Translation quality, emerging possibilities and issues. In addition to these, the use of the World Wide Web, Web-based translation aids and other applications for producing rapid, localized and high-quality translation are discussed.

Pre-requisite: None

### **AHGC7303 EVALUATION AND ASSESSMENT OF LANGUAGE USE**

This course is an introduction to the field of language assessment. Topics covered in the course include purpose and context of testing, assessing skills and components of language ability, content analysis of test instruments, and statistical analysis of test performance data, and fairness and justice in language assessment.

Pre-requisite: None

### **AHGC7308 SPECIAL TOPICS IN APPLIED LINGUISTICS I**

This course is designed to offer visiting scholars, existing or future staff, the opportunity to offer courses in their particular area of specialization. The topic and content of the courses will vary from year to year depending on the availability of expert staff. Examples of specialized topics that may be offered include: data-driven learning, computer-adaptive language testing, automated scoring, corpus-based EAP (English for academic purposes), etc.

Pre-requisite: None

### **CHLL7101 漢語語言學研究方法 METHODS IN CHINESE LINGUISTICS**

本課程旨在系統介紹語言學的研究思路、方法和一些重要的語言學理論，指導學生採用科學的工具和方法對漢語進行共時或歷時的系統研究。課程包括語言學研究的一般方法和特殊方法，語言學研究中經常使用的工具性概念，各個語言學流派所採用的分析技術，國內學者建立的語言學理論等內容。

Pre-requisite: None

### **CISC7021 APPLIED NATURAL LANGUAGE PROCESSING**

This course covers both the fundamental and advanced topics in Natural Language Processing(NLP), which deals with the application of computational models to text data. In this course, the core tasks in natural language processing will be examined, including minimum edit

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distance, language modelling, N vie Bayes, Maximum Entropy, text classification, sequence labelling, POS tagging, syntax parsing and computational lexical semantics. Modern NLP applications will be explored such as information retrieval, and statistical machine translation. Students will learn how to formulate and investigate research questions on related topics.  
Pre-requisite: None

#### **PHIL7101 TOPICS IN SEMANTICS**

This course is an introduction to the formal analysis of natural language semantics as situated within the larger domain of linguistics. Students will be introduced to the main goals and methods of formal semantics, with a special focus on some of its core empirical results, and to some mathematical concepts underlying semantic interpretation systems (sets, relations, functions). Topics include: predication, the semantics of quantificational determiners, indexicals, semantic binding, tense, and modality.  
Pre-requisite: None

#### **AHGC7398 PROJECT REPORT**

A "Project Report" addresses a particular issue in a specific context and may incorporate elements of data collection, data processing, data analysis and data solution. Students demonstrate their ability to reflectively examine a particular context, identify and define an issue in that context, access, summarize, and synthesize current literature relevant to the issue, and develop a justified approach to address that issue. Various linguistics and applied linguistics related topics are acceptable. Students have the option to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.  
Pre-requisite: None

### ***Specialization G: Analytics in Teaching and Learning***

#### **EDUC7041 ASSESSMENT AND EVALUATION OF EDUCATIONAL BIG DATA**

This course is designed to introduce graduate students to the application of big data in educational context, including the epistemological underpinnings of data science, in-depth knowledge of data science theories in education, and the methodological nuts-and-bolts in conducting educational evaluation.  
Pre-requisite: None

#### **EDUC7042 DATA-DRIVEN APPROACH TO EDUCATIONAL ADMINISTRATION**

This course is to introduce prospective data scientists to data management in educational administration. Emphasis is placed on the use and repurposing of data to enhance governance and efficiency of school education as well as to formulate or update relevant policies and administrative measures emerged in response to changing social development or enactment of laws or rules.  
Pre-requisite: None

#### **EDUC7043 LEARNING ENHANCEMENT WITH BIG DATA**

This course is designed to improve instruction using data. In the digital age, a wealth of data is available for teaching and learning purposes. This course aims to broaden students with the initiatives undertaken to make use of data-driven approaches that can improve the learning process. Students are expected to make use of tools to mine a wide range of learning patterns and behaviors so as to enhance the quality of instruction. They will study, experience and review the theory and practice of existing applications of big data in order to make informed judgment about their educational duties.  
Pre-requisite: None

#### **EDUC7044 QUANTITATIVE SOCIAL SCIENCE RESEARCH WITH BIG DATA**

This course is designed to be part of the emerging field of quantitative/computational social sciences. The goal is to equip students with data science approach to answer social science



questions. This course will introduce principles and skills of quantitative social science research. Students will receive an update of the major tools and ideas used in the field and be guided toward their first data-driven research project throughout this course.

Pre-requisite: None

### **SSGC7201 CIVIC DATA ACQUISITION AND ANALYSIS**

To promote studies using computational methods in social sciences, this course focuses on machine learning techniques and their applications in social sciences. By introducing principal ideas in statistical learning, the course will help students to understand the conceptual underpinnings of methods in data mining, how classical concepts of research design in the social sciences can be implemented in new data sources, and how these new data sources might require social scientists to update their thinking on research design. The course focuses more on the usage of existing software packages (mainly in R) than developing the algorithms by the students. Students will be required to work on projects to practice applying the existing software.

Pre-requisite: None

### **EDUC7098 PROJECT REPORT**

Project Report is designed to encourage students in this program to participate in various projects and practices at different levels relevant to the use of big data and cultivate their abilities in collecting, managing, and processing big data in related areas of education independently. The Project Report should include the purpose, process and outcomes of participation in the project. Students have the option to engage in a collaborative visit to our industrial partners, enabling students to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.

Pre-requisite: None

## ***Specialization H: Smart Governance***

### **SSGC7201 CIVIC DATA ACQUISITION AND ANALYSIS**

To promote studies using computational methods in social sciences, this course focuses on machine learning techniques and their applications in social sciences. By introducing principal ideas in statistical learning, the course will help students to understand the conceptual underpinnings of methods in data mining, how classical concepts of research design in the social sciences can be implemented in new data sources, and how these new data sources might require social scientists to update their thinking on research design. The course focuses more on the usage of existing software packages (mainly in R) than developing the algorithms by the students. Students will be required to work on projects to practice applying the existing software.

Pre-requisite: None

### **SSGC7202 BIG DATA AND SMART GOVERNANCE**

This course is designed to teach students analytical techniques of dealing with open government data and other (usually big) data that are related to smart governance. We will focus on two types of data: text data and geo-spatial data.

Digitalized text represents an important source of data for social scientists. This is particularly true in political science, where a large amount of political information, otherwise, difficult to analyze, is embodied in historical and contemporary speeches and documents that can be converted into digitalized text with increasing ease. Another source of text-based data come from online contents.

Pre-requisite: None

### **SSGC7203 ANALYSIS OF MEDIA AND OPINION DATA**

This course introduces students to the theories and techniques of data analysis for monitoring and understanding media behavior and public opinion.

While theories of statistics, communication, media effects, and public opinion will be reviewed,

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the emphasis is on hands-on analysis and presentation of data. The objectives are two-folds 1) facilitate data-based policy making and decision making in government and cooperate settings; 2) facilitate data-based theory building in both applied and academic settings.

Pre-requisite: None

#### **SSGC7204 MAKING SENSE OF SMART GOVERNANCE**

Smart Governance is an essence for the development of smart city that stressing on the public-private collaboration for city management through the use of Information and Communication Technologies (ICTs). This course introduces the concept, main theories, and updated studies of smart governance, as well as integrate a course project with several assignments to offer practical skills training. After the first introductory lecture on smart governance, the course covers four key topics of SG: 1) major theories of governance in political science and public administration; 2) the practice of using IOT technologies to design and implement solutions for smart and sustainable governance in the context of China and beyond; 3) experimental social science techniques including survey experiment, field experiment, quasi-experiment (e.g., PSM, DID, RDD, IV), and natural experiment.

Pre-requisite: None

#### **EDUC7044 QUANTITATIVE SOCIAL SCIENCE RESEARCH WITH BIG DATA**

This course is designed to be part of the emerging field of quantitative/computational social sciences. The goal is to equip students with data science approach to answer social science questions. This course will introduce principles and skills of quantitative social science research. Students will receive an update of the major tools and ideas used in the field and be guided toward their first data-driven research project throughout this course.

Pre-requisite: None

#### **SSGC7298 PROJECT REPORT**

Project report gives the students an opportunity to apply the knowledge obtained from their previous studies in data science and field of specialization based on their interest. Students, guided and supervised by individual instructor on a person-to-person basis, are required to independently and individually complete a research project on smart governance that subject with a report of no less than 4,000 words in length. Mini conferences would be organized by the academic year-end and students were required to deliver their projects which would be graded. Enabling students to interact with and visit industrial partners, thus gaining firsthand insights and incorporating these experiences into their project reports.

Pre-requisite: None

## PROGRAMMES OF STUDY

# Institute of Microelectronics

## Master's Degree Programmes

### Master of Philosophy

- **Microelectronics**

		Credits
<b>Compulsory Courses:</b>		
IMEL7000	Microelectronic Circuit Design	3
IMEL7990	Thesis	12
<b>Required Electives:</b>		
5 Required Electives chosen from the List of Required Electives		15
<b>Grand Total:</b>		<b>30</b>

#### List of Required Electives for MPhil in Microelectronics

IMEL7001	Integrated Circuits Research Methodology and Applications
IMEL7002	Digital Integrated Circuits
IMEL7003	Data Converter Integrated Circuits
IMEL7004	Flexible Alternating Current Transmission System
IMEL7005	Power Management Integrated Circuit Design
IMEL7006	Special Topics in Biomedical Engineering
IMEL7007	High-Frequency and High-Speed Wireless/Wireline Integrated Circuit
IMEL7008	Analog IC Design Methodology
IMEL7009	Machine Learning and Analog Accelerators
IMEL7010	Interface Microelectronic Circuits and Sensors Design
IMEL7011	Microelectronics for the Internet of Things

# Master's Degree Programmes

## Master of Science

### • Microelectronics

	Credits
<b>Compulsory Courses:</b>	
IMEL7000 Microelectronic Circuit Design	3
IMEL7998 Project Report	6
<b>Required Electives:</b>	
7 Required Electives chosen from the List of Required Electives	21
<b>Grand Total:</b>	<b>30</b>

OR

<b>Compulsory Courses:</b>	
IMEL7000 Microelectronic Circuit Design	3
IMEL7997 Internship and Report	3
<b>Required Electives:</b>	
8 Required Electives chosen from the List of Required Electives	24
<b>Grand Total:</b>	<b>30</b>

Students who take Project Report are required to take 7 courses from the following List of Required Electives to obtain 21 credits; students who take Internship and Report are required to take 8 courses from the following List of Required Electives to obtain 24 credits.

### List of Required Electives for MSc in Microelectronics

IMEL7001	Integrated Circuits Research Methodology and Applications
IMEL7002	Digital Integrated Circuits
IMEL7003	Data Converter Integrated Circuits
IMEL7004	Flexible Alternating Current Transmission System
IMEL7005	Power Management Integrated Circuit Design
IMEL7006	Special Topics in Biomedical Engineering
IMEL7007	High-Frequency and High-Speed Wireless/Wireline Integrated Circuit
IMEL7008	Analog IC Design Methodology
IMEL7009	Machine Learning and Analog Accelerators
IMEL7010	Interface Microelectronic Circuits and Sensors Design
IMEL7011	Microelectronics for the Internet of Things

## Course Description

### IMEL7000 MICROELECTRONIC CIRCUIT DESIGN

This course is designed to discuss on fundamental principles for analysis and design of analog circuits and the practical considerations in integrated circuit design. Students will learn how to design, analyze and evaluate amplifiers as an essential integrated circuit building block. Advanced amplifiers/analog circuit layout techniques with case studies will also be introduced. By providing hands-on practice with one real advanced VLSI CMOS process using industrial EDA tools, students can have a deep understanding on how to design practical integrated circuits and make real world engineering tradeoffs. This course will be assessed with assignments, presentations and projects.

This course enables students to have:

- Apply the essential knowledge in analog circuit design.
- Design the common analog circuit building blocks with practical considerations.
- Design and simulate analog circuits using industrial simulation tools with real-world CMOS processes.

Pre-requisite: None

### IMEL7001 INTEGRATED CIRCUITS RESEARCH METHODOLOGY AND APPLICATIONS

This is an introductory course of integrated circuits research methodology and applications. It aims to aid the students to build up an internationally competitive research goal by understanding the state-of-the-art, trends in applications and technologies, and systematically formulate a feasible schedule, with available resources, to approach the research goals. Preparation of related academic publications and system-level case studies of advanced integrated circuits and systems will be organized for the students to digest and present them. The course aims to provide the students a set of essential engineering skills for research in the integrated circuits area.

This course enables students to have:

- Apply the essential knowledge on starting integrated circuits research.
- Identify the trends of integrated circuits for practical applications.
- Recognize the impact of integrated circuit solutions in a global and societal context.

Pre-requisite: None

### IMEL7002 DIGITAL INTEGRATED CIRCUITS

This is an introductory course in digital integrated circuits. It covers topics from MOS inverters and different logic family. The student will learn how to model interconnect wires and design optimization with respect to a number of metrics: cost, reliability, speed and power. This course also covers sequential and dynamic logic circuit design, timing considerations, and clocking approaches, as well as design of large system blocks, including memories, such as D-flip-flop and SRAM. This customized course from bottom-up based, which starts from the fundamental techniques for the design and analysis of digital circuits. Then, it provides a detailed understanding of basic logic synthesis and analysis algorithms, and to enable students to apply this knowledge in the design of digital systems and EDA tools. The course aims to give a basic idea of the digital integrated circuit design. The students will have a hands-on experience on combinational circuit optimization (two-level and multi-level synthesis), sequential circuit optimization (state encoding, retiming), timing analysis, testing, and logic verification through the lab work.

This course enables students to have:

- Apply the essential knowledge in digital circuit design both for custom and autogeneration schemes.
- Apply common digital circuit building blocks, such as logic gates, adder and SRAM, with practical considerations.
- Design and simulate digital circuits and digital standard cells using industrial

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simulation tools with real-world CMOS processes.

Pre-requisite: None

### **IMEL7003 DATA CONVERTER INTEGRATED CIRCUITS**

This course will provide an introduction to the various type of Data Conversion System. The performance characterization of Data Converters will be presented, and various type of data converters (including Analog-to-Digital and Digital-to-Analog) will be discussed. This course can be served as the beginning course in the field of Data Conversion and Signal Processing in the area of Analog IC Design.

This course enables students to have:

- Recognize and analyze the definitions of performance parameters for data converters, in datasheet and research papers.
- Design the various types of data converters.
- Implement the systems above using EDA tools widely adopted in IC industries.

Pre-requisite: None

### **IMEL7004 FLEXIBLE ALTERNATING CURRENT TRANSMISSION SYSTEM**

The Flexible Alternating Current Transmission System and Distribution Flexible AC Transmission System (FACTS/DFACTS) are a new converging technology based on the Power Electronics, Control Theory and Power System for revolution of ever more efficient control and better utilization of power and energy in the existing systems. The FACTS offers an opportunity to enhance controllability, stability and power transfer capability of AC transmission systems with fastest control speed. DFACTS is the extended modern technique of FACTS to focus on the Custom issues or power line conditioning in the distribution site as well as the Information Technology's Electricity Issues.

This course enables students to have:

- Recognize the basic concepts, fundamental operational principles, advantages, and disadvantages of different FACTS/DFACTS devices.
- Identify the control strategies of some selected FACTS/DFACTS devices.
- Present the operation principles of selected FACTS/DFACTS devices.

Pre-requisite: None

### **IMEL7005 POWER MANAGEMENT INTEGRATED CIRCUIT DESIGN**

This course starts from a single transistor, with introductions on transistor fabrication and electrical characteristics. Then, single-stage analog amplifier will be analyzed, design and analyses of two-stage amplifier will be discussed. After we know the analog integrated circuit (IC) design basics, we will learn the basic components of power management ICs: low-dropout regulators, inductor-based and switched-capacitor DC-DC converters. Last but not least, wireless power transfer circuits and systems will be briefly introduced.

This course enables students to have:

- Apply the essential knowledge in power management integrated circuits design.
- Design and simulate the power management ICs using EDA tools with the CMOS process.
- Present the design project results both orally and in IEEE-style reports.

Pre-requisite: None

### **IMEL7006 SPECIAL TOPICS IIN BIOMEDICAL ENGINEERING**

This course is an introductory course on multidisciplinary topics covering microelectronics, biomedical engineering, and digital microfluidics. As a special topic course, it will focus on the principles and biomedical applications of digital microfluidics, which utilizes electronic signal to manipulate liquid droplets on an array of micro-electrodes. The course also covers the introduction of the fabrication technology in clean room related to MEMS and soft-lithography. The coating and etching techniques on silicon wafers or glass chips will be introduced and practiced in this course.

This course enables students to have:

- Introduce state-of-the-art knowledge in the development of biomedical engineering.
- Design microfluidic chips and implement chips into microfluidic systems, including PDMS-based channel microfluidics and electronic-based digital microfluidics.
- Apply microfluidic systems in biomedical applications.

Pre-requisite: None

### **IMEL7007 HIGH-FREQUENCY AND HIGH-SPEED WIRELESS/WIRELINE INTEGRATED CIRCUIT**

This is an introductory course in the high-frequency and high-speed systems and circuit of both wireless and wireline tailored for ECE students. It covers topics from basic circuit techniques in the data path of both wireless and wireline, such as low-noise amplifier, mixer, linear equalizer, non-linear equalizer, automatic gain control amplifier, clock and data recovery circuit, to basic circuit techniques in the clock path, for example, PLL, VCO and divider. Also, we brief more recent techniques such as non-contact communication and RF+BB communication with special attention to hardware aspects and wireline applications. The course aims to offer students a set of modern wideband system and circuit solutions as well as the basic ideas and intuition behind, with more emphasis on hands-on experience through practical examples such as high-frequency and high-speed circuit implementation and case studies with Cadence/MATLAB.

This course enables students to have:

- Apply the essential knowledge of high-frequency and high-speed systems and circuits in both wireless and wireline designs.
- Identify the common wireless/wireline circuit building blocks with practical considerations in the data and clock paths.
- Design and simulate high-frequency and high-speed circuits using industrial simulation tools with real-world CMOS processes.

Pre-requisite: None

### **IMEL7008 ANALOG IC DESIGN METHODOLOGY**

This course provides the necessary systematic approach methodology in generic analog IC designs. The topics covered include the technique in systematic method in analysis and design of the amplifiers and opamps, such as using the scaled current and multiplier techniques, the impedance rules-of-thumb, and layout-oriented amplifier design techniques. Advanced layout techniques in detail, the analog IC simulations methodology, etc. will be covered. Project-based evaluations will be the primary assessments for the students' performance.

This course enables students to have:

- Recognize the systematic design approach on how to design amplifiers and opamps.
- Explain the theories for simulations.
- Implement master a practical circuit design project.

Pre-requisite: None

### **IMEL7009 MACHINE LEARNING AND ANALOG ACCELERATORS**

This is an introductory course in machine learning tailored for IME students. It covers the topics from classification, regression and statistical signal processing, to more recent techniques such as neural network and deep learning. It also covers the analog approximate computing integrated circuit design considerations for acceleration purpose. The course aims to offer students the fundamental concepts in the advanced artificial intelligence theory with emphasis on hands-on experience through practical examples such as intelligent hardware system implementation and case studies with MATLAB/Python. The verified algorithm can be further implemented on an FPGA for applications such as image/audio recognition.

This course enables students to have:

- Apply the essential knowledge in machine learning and deep learning.
- Design analog accelerators with practical circuit considerations.
- Design and verify neural networks for image/audio classification problems using MATLAB/Python.

Pre-requisite: None

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## **IMEL7010      INTERFACE MICROELECTRONIC CIRCUITS AND SENSORS DESIGN**

The sensors and their interfaces with the circuits are important part of the electronic devices. They capture vital information from the real world. This course covers the design of sensors and interfacing circuits in CMOS process. The student will learn to design the sensors for different sensing purposes and their front-end interfaces to process the acquired signals at both system- and circuit-level. Different design considerations such as noise, power consumption, distortion/nonlinearity will be discussed. Fabrication of the micro-electro-mechanical systems and their integration with the CMOS integrated circuits will also be covered.

This course enables students to have:

- Design fundamental building blocks in the CMOS process for signal readout and sensing systems.
- Implement different sensing elements (thermal, capacitive, resistive, etc.) in the CMOS process and discover their potential applications.
- Simulate the sensing circuits and systems in the CMOS process using simulation tools and realize their limitations.

Pre-requisite: None

## **IMEL7011      MICROELECTRONICS FOR THE INTERNET OF THINGS**

As enabled by the powerful technology, microelectronics have become essential in our daily lives. They are also used in a wide range of fields such as healthcare, environmental monitoring, robotics or entertainment etc. This introductory course in microelectronics is tailored for the Internet of Things (IoT), which teaches how to use microelectronic circuits interacting with the environment through sensors and communicate wirelessly with the other devices. It covers topics from evaluation and implementation of sensor interface, data conversion, signal processing and device communications. This customized course from bottom-up based, which starts from introducing the fundamental building blocks in microelectronics for the IoT. Then, followed by system and architectural interface considerations. Finally, the students have chance to realize a basic IoT system based on available microelectronic module. The course aims to give a basic idea of the key microelectronic building blocks for the IoT application. The students will have a hands-on experience through practical design examples and case studies with available microelectronic module.

This course enables students to have:

- Apply the essential knowledge in basic building blocks and system of the Internet of Things (IoT) system.
- Introduce practical considerations of IoT systems, especially emphasized on sensing and data communication.
- Design and verify the various IoT systems with existing modules.

Pre-requisite: None

## **IMEL7990      THESIS**

An independent and original research study under the supervision of a faculty staff member. An academic thesis is a scholarly written document of a piece of original research on a particular topic in consistent with every detail of research methodology. In general, the study could result in a technical publication or a presentation at a professional meeting.

This course enables students to have:

- Apply knowledge and recognize specialist topics in microelectronics research.
- Design the integrated circuits and conduct research.
- Create innovative circuit and system techniques in the development of microelectronic integrated circuits.
- Use the computer-aided design and analysis techniques appropriate to microelectronics engineering.

Pre-requisite: None

## **IMEL7997      INTERNSHIP AND REPORT**

An independent project carried out under the supervision of a faculty staff member and a project



manager in industry. Internship training will be carried out at a selected industry.

This course enables students to have:

- Apply knowledge and recognize specialist topics in microelectronics engineering.
- Design the integrated circuits and conduct engineering projects.
- Use the computer-aided design and analysis techniques appropriate to microelectronics engineering.
- Show more application-oriented project experiences in microelectronics through an industrial internship project.

Pre-requisite: None

### **IMEL7998 PROJECT REPORT**

An independent project carried out under the supervision of a faculty staff member.

This course enables students to have:

- Apply knowledge and recognize specialist topics in microelectronics engineering.
- Design the integrated circuits and conduct engineering projects.
- Use the computer-aided design and analysis techniques appropriate to microelectronics engineering.
- Show more application-oriented project experiences in microelectronics through an engineering project.

Pre-requisite: None

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# Residential Colleges

## Residential Colleges

The Residential College (hereinafter referred to as “the College”) system at the University of Macau is a comprehensive community-based educational platform that embodies the University’s 4-in-1 education model and student-centered philosophy of whole-person education. The College system works in conjunction with faculties, institutes, Student Affairs Office, and Office of Sports Affairs in a synergistic manner to foster student development. The core focus of the College system is to provide undergraduate students with an experiential curriculum designed to promote whole-person education, enabling them to position themselves as individuals with firm roots in Macao, while at the same time being committed to participating in the development of the Greater Bay Area. In this way, students are empowered to not only integrate themselves into national development but also reach out to the world. The College system cultivates students to become exemplary citizens with affection for home country. College education aims to enhance the qualities and competencies of students in terms of responsible citizenship, global competitiveness, knowledge integration, teamwork and collaboration, service and leadership, cultural engagement, and healthy lifestyle. In order to develop these seven competencies in students, College education offers five major experiential education measures, including activity learning, communal meal participation education, academic support, RC courses and pastoral care.

Students from different academic disciplines live together in colleges, creating a stimulating learning environment in which they learn from each other, broaden their intellectual horizons, and communicate and work with people of different backgrounds and cultures. The educational environment within the College system provides opportunities for the active participation of students in the preparation and planning of activities. Students not only participate in these activities but also play an active role in organizing and promoting College education. Through their involvement in different stages and experiences, from planning to feedback, students have the opportunity to showcase their strengths and enhance their competencies. There are currently ten colleges in UM, namely Cheong Kun Lun College, Chao Kuang Piu College, Choi Kai Yau College, Cheng Yu Tung College, Henry Fok Pearl Jubilee College, Lui Che Woo College, Ma Man Kei and Lo Pak Sam College, Moon Chun Memorial College, Shiu Pong College, and Stanley Ho East Asia College.

For further details of RC education system, please go to RC website: <https://rc.um.edu.mo/>

### Enquiries:

Chao Kuang Piu College	Tel: (853) 8822 9372, 8822 9376
	E-mail: <a href="mailto:ckpccollege@um.edu.mo">ckpccollege@um.edu.mo</a>
	Website: <a href="https://ckpc.rc.um.edu.mo/">https://ckpc.rc.um.edu.mo/</a>
Cheng Yu Tung College	Tel: (853) 8822 9363, 8822 9364
	E-mail: <a href="mailto:cytcollege@um.edu.mo">cytcollege@um.edu.mo</a>
	Website: <a href="https://cytc.rc.um.edu.mo/">https://cytc.rc.um.edu.mo/</a>
Cheong Kun Lun College	Tel: (853) 8822 9520
	E-mail: <a href="mailto:cklcollege@um.edu.mo">cklcollege@um.edu.mo</a>
	Website: <a href="https://cklc.rc.um.edu.mo/">https://cklc.rc.um.edu.mo/</a>

Choi Kai Yau College	Tel: (853) 8822 9400
	E-mail: <a href="mailto:ckycollege@um.edu.mo">ckycollege@um.edu.mo</a>
	Website: <a href="https://ckyc.rc.um.edu.mo/">https://ckyc.rc.um.edu.mo/</a>
Henry Fok Pearl Jubilee College	Tel: (853) 8822 9128
	E-mail: <a href="mailto:fpjcollege@um.edu.mo">fpjcollege@um.edu.mo</a>
	Website: <a href="https://hfpjc.rc.um.edu.mo/">https://hfpjc.rc.um.edu.mo/</a>
Lui Che Woo College	Tel: (853) 8822 9300
	E-mail: <a href="mailto:lcwcollege@um.edu.mo">lcwcollege@um.edu.mo</a>
	Website: <a href="https://lcwc.rc.um.edu.mo/">https://lcwc.rc.um.edu.mo/</a>
Ma Man Kei and Lo Pak Sam College	Tel: (853) 8822 9500
	E-mail: <a href="mailto:mlcollege@um.edu.mo">mlcollege@um.edu.mo</a>
	Website: <a href="https://mlc.rc.um.edu.mo/">https://mlc.rc.um.edu.mo/</a>
Moon Chun Memorial College	Tel: (853) 8822 9266, 8822 9975
	E-mail: <a href="mailto:mcmofficeofthemaster@um.edu.mo">mcmofficeofthemaster@um.edu.mo</a>
	Website: <a href="https://mcmc.rc.um.edu.mo/">https://mcmc.rc.um.edu.mo/</a>
Shiu Pong College	Tel: (853) 8822 9630
	E-mail: <a href="mailto:spc.enquiry@um.edu.mo">spc.enquiry@um.edu.mo</a>
	Website: <a href="https://spc.rc.um.edu.mo/">https://spc.rc.um.edu.mo/</a>
Stanley Ho East Asia College	Tel: (853) 8822 9319
	E-mail: <a href="mailto:seacollege@um.edu.mo">seacollege@um.edu.mo</a>
	Website: <a href="https://sheac.rc.um.edu.mo/">https://sheac.rc.um.edu.mo/</a>

**Residential College System enquiry:** [rc@um.edu.mo](mailto:rc@um.edu.mo)

**Website:** <https://rc.um.edu.mo/>

# Student Life

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# Student Life

## **The Way to UM - New Student Orientation Programme**

The Orientation Programme is designed to provide students with a dynamic and informative experience, helping students adapt to the University learning environment, plan their university life, and develop essential skills for success. Through our programme, students will set a foundation for a rewarding university experience at UM.

## **Psychological Counselling Service**

The Psychological Counselling Service is designed to support students in enhancing self-awareness, fostering personal growth, and developing effective coping strategies. We help students navigate challenges related to university life, manage stress and emotions, and make positive life changes. Our individual and group counselling address concerns such as interpersonal relationships, self-esteem, self-awareness, stress management, emotional regulation, and campus life adjustment. All counselling sessions are strictly confidential.

## **Social Work and Counselling Service in Residential Colleges**

The Social Work and Counselling Service promotes whole-person development by providing personalized support within residential colleges. Our social workers and counsellors offer consultations and organize developmental activities to facilitate students' adjustment and growth. We also connect students with relevant community resources for additional support when needed.

## **Disability Support Service**

The Disability Support Service ensures that students with disabilities have equal access to education, campus activities, and university services at the University of Macau. We assist students with physical, visual, hearing, speech, learning, and psychological impairments that significantly impact their academic or daily lives. Our services are tailored to meet the individual needs of students with documented permanent or temporary disabilities, providing necessary accommodations and support.

## **Smart Point Scheme**

Smart Point (SP) is an incentive scheme that encourages students to participate in major activities in the University, thereby broadening their horizons and enhancing their sense of belonging to UM. The more Smart Points (SP) students accumulated, the more chances they are selected to participate in the Summer Programme with a subsidy up to Mop 15,000 or 70% of the total cost.

## **Whole Person Development Award Programme**

The Whole Person Development Award Programme encourages students to participate in different extracurricular activities, cultivating their balanced development in the 7 competencies (Responsible Citizenship, Global Competitiveness, Knowledge Integration, Teamwork and Collaboration, Service and leadership, Cultural Engagement, Healthy Lifestyle). A total of 22 scholarships of MOP5,000 each are available for students with the most outstanding performance in the programme.

## **Sports Activity**

In order to promote sports culture and healthy living on campus, a wide range of sports activities (Orientation Sports Activities, Sports Fair, Sportswear Day, Sports Fest, Campus Run, National Day Happy March and Happy Walk etc.), sports interest courses (Aerial Yoga, Baduanjin, Kendo, Kickboxing, Lawn Bowling, Pickleball, Salsa Dance, Swimming, Taekowndo, Tai Chi, Wing Chun and Yoga etc.) are being organized and co-organized by Office of Sports Affairs.

### **Alumni Mentorship Scheme**

This scheme connects students with accomplished alumni mentors who offer career guidance, share industry insights, and provide inspiration for academic and professional success. Through meaningful mentorship relationships, participants gain practical wisdom while expanding their professional networks.

### **Corporate Experience Scheme**

The Career Development Centre organizes corporate visits and networking sessions to enhance students' understanding of industry trends, workplace environments, and employment opportunities. These events allow students to engage directly with professionals across various sectors, offering firsthand exposure to different career paths.

### **Career Advising Service**

Students may schedule appointments for career advising, mock interviews, and resume reviews with the Career Development Centre.

### **Career Assessment Workshops**

he workshops help students understand key elements of career planning through self-exploration activities and career assessments, enabling them to make informed decisions about their professional development.

### **Career Training Workshops**

The workshops are designed to strengthen students' job search skills and enhance their professional competitiveness.

### **UM Student Job-hunting Platform**

The Career Development Centre liaises with employers and assists students in job searching. The UM Student Job Vacancy System is an electronic platform for such function. Each year, the Centre organizes Career & Internship Fair and Recruitment Talks, inviting companies and organizations from various sectors to provide students with a broad perspective of the job market, employment and internship opportunities.

### **Internship**

The Career Development Centre facilitates internships to help students gain practical experience, develop relevant skills, and establish valuable connections with potential employers.

### **Preparation Courses on Graduate Admission Tests**

The courses aim at assisting students to prepare for graduate school admission tests and enhancing their confidence and skills when taking the tests. The courses include TOEFL, IELTS, GRE and GMAT.

### **Tea with Professors**

The Career Development Centre invites professors from different faculties to meet students in small groups over tea, offering students guidance and advice on further study and career development.

### **Further Study Experience Sharing Sessions**

Professors from different faculties and outstanding alumni will share their further study experiences and advice on preparing for admissions, allowing students to learn from their insights and success in further study.

### **Further Study Advising Service**

The Career Development Centre offers comprehensive support for students preparing for further studies, including advisory sessions, as well as resume and personal statement reviews. Additionally, through the UM Alumni Online platform, the Centre connects students with alumni

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to provide first-hand insights into overseas postgraduate studies and life as a graduate student.

### **Further Study Talks**

Students can gain up-to-date insights on postgraduate opportunities, including overseas programmes and scholarships through informative talks hosted by the Career Development Centre. Additionally, the Centre arranges non-local postgraduate programme introduction sessions featuring representatives from leading universities, who provide direct admission guidance and programme details.

### **Further Study Workshops**

The workshops aim at enhancing students' skills and competitiveness in applying for postgraduate programme.

### **Student Insurance**

The Student Affairs Office (SAO) manages personal accident, travel and medical insurance for students. The UM medical insurance is mandatory for all registered students, unless exemption is approved. Coverage begins on the registration date and extends to 31 July 2026, including benefits for both out-patient visits and hospitalization. For detailed information regarding the UM Medical Insurance Scheme, Waiver Guidelines and Exemption Application, please visit <https://srs.sao.um.edu.mo/medical-insurance>.

### **Non-local Student Service**

The Student Affairs Office (SAO) provides a pick-up service to facilitate new non-local students' arrival and assists with their Stay Permit applications at the beginning of each academic year.

### **Financial Aid**

The Student Affairs Office (SAO) provides financial aid and related consultation to students in need. Students with financial difficulties may approach SAO to apply for Tuition Fee Installment and seek advice on financial aid resources.

### **Campus Training Programme**

Campus Training Programme (CTP) provides students with opportunities to apply knowledge into practical work. Students can utilize their spare time to gain real working experience through the "on-the-job" training provided by the Student Affairs Office as well as the participation at university activities. There are four streams of programme including office administrative trainees, masters of ceremony, activity ambassadors and social media planners. It aims to enhance students' personal competitiveness, and build up their sense of belonging to the University and the society. To recognize trainees' hard work, awards will be presented to the trainees with outstanding performance every academic year. Outstanding trainees will also be nominated to the summer programme with subsidy.

### **Stage Management Programme**

Stage Management Programme (SMP) provides students with practical skills and on-the-job training to enhance their working experience, professional skills and competitiveness. At the Student Activity Centre, students receive training in technical aspects of stage management including stage set up, backstage coordination, and control of video, audio, and lighting, as well as theatre management.

### **Student Leadership Training Programme**

Student Leadership Training Programme (SLP) aims to recruit potential students from different majors and residential colleges, equip them with soft and hard skills to be future leaders. By offering them a series of workshops, theme-based projects, exchange tour, etc., members are set to contribute to the community with their creativity and enthusiasm. Outstanding members will be awarded the "Outstanding Award" in the annual UM Student Award Ceremony. Sponsorship and nomination to Summer Programme and exchange trips will also be offered to



excellent members.

### **Summer Exchange Programme**

Students can participate in various Summer Exchange Programmes in Australia, Austria, Belgium, Canada, China, France, Germany, Greece, Hungary, Israel, Italy, Japan, Korea, Malaysia, Netherlands, Norway, Poland, Portugal, Singapore, Spain, United Kingdom and United States to enhance their English proficiency. At the same time, they can enrich cultural experience and sensitivity by interacting with other international students and visiting famous landmarks in the exchange countries.

### **UM Volunteer Programme**

UM Volunteer Programme (UMVP) aims at supporting local volunteer needs, promoting a caring culture, spreading the spirit of caring and dedication to the local community, and enhancing our students' cohesion and sense of belongings to UM and Macau thru different kinds of visit and community activities.

### **Postgraduate House**

The Postgraduate House (PGH) provides accommodation mainly for non-local postgraduate students. PGH fosters a friendly and supportive environment designed to help students adjust to academic life and enhance their residential experience.

### **Locker Rental Service**

The Student Affairs Office (SAO) offers a locker rental service for students. Lockers are available in the Central Teaching Building and different faculty buildings. The rental period begins in August and students can apply online. The rental fee is payable via "GovPay" through the online system.

### **Sports Teams and Performing Teams**

Sports Teams and Performing Teams are managed by Office of Sports Affairs, with the aim to facilitate student-athletes to soar higher performance in sports; to develop student-athletes' essential attributes; to develop global outlook through various competitions / performances and exchange programmes; to nurture our student-athletes not only in sports excellence but also all-round attributes (such as team spirit, leadership, inter-personal skills, global outlook, sportsmanship, etc).

The University offers regular trainings, team members will represent the University to participate in competitions and exchange activities. Member recruitment will be held at the beginning of each academic year, all students are welcome to join the member selection. Currently, there are 17 Sports Teams and 2 Sports Performing Teams, including:

- Badminton Team
- Men's Basketball Team
- Women's Basketball Team
- Cheerleading Team
- Dragon Boat Team
- Dragon and Lion Dance Team
- Fencing Team
- Karate Team
- Korfball Team
- Martial Arts Team
- Rock Climbing Team
- Men's Soccer Team
- Squash Team
- Swimming Team
- Table Tennis Team
- Tennis Team
- Track and Field Team

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- Men's Volleyball Team
  - Women's Volleyball Team

### **Activities on National and Regional Education, Innovation and Entrepreneurship**

To be in line with the youth education policy of the Macao S.A.R. government, SAO organizes various student activities to enhance students' knowledge on national affairs as well as the development of the Guangdong-Hong Kong-Macao Greater Bay Area and Macao S.A.R.

### **National Flag Team**

The National Flag Team (NFT) conducts flag-raising ceremonies on significant days commemorating the People's Republic of China, Macao S.A.R and the University of Macau. The team also promotes national flag-raising culture among students on campus and young people in primary and secondary schools. Outstanding members are recognized with certificates and may be eligible for the "Bank of China Macau University of Macau National Flag Team Outstanding Team Members Scholarship".

### **Cultural and Arts University Teams**

Cultural and Arts Univerisity Teams (C&A U-Teams) enrich student life through debating, public speaking and artistic pursuits. These teams provide opportunities for students to explore and develop their talents. In addition to regular trainings, competitions and performances, team members are encouraged to participate in cultural promotion activities on campus and to collaborate with local, Mainland and overseas communities and organisations.

Recruitment of members will be held at the beginning of each academic year. Interested students are welcome to join the teams. C&A U-Teams include:

### **Cantonese Debating Team**

Effective communication is essential in our daily lives. To improve presentation skills and foster critical thinking, the UM Cantonese Debating Team holds regular training sessions and friendly contests with Hong Kong debating teams every year. The team also invites renowned debaters to conduct training workshops.

### **English Debating Team**

The UM English Debating Team invites students with fluent English and good presentation skills to join. The team provides an excellent opportunity to develop critical thinking and enhance persuasive abilities. The team has participated in numerous renowned international and regional competitions, achieving impressive results. Notably, it has been ranked in the Top 8 at the World Universities Debating Championship and has earned titles including 3 times of the National Champions, 3 times of the First Runner-ups, 1 time of the Second Runner-up. For 10 years in the FLTRP Cup National Debating Competition, the team has also been recognized for having Best 10 Debaters. Furthermore, the team has been the Champion of the Macao Inter-Tertiary English Debating Competition for 11 consecutive years and organized the Greater Bay Area Inter-Varsity English Debate Competition, securing the Champion title for 2 consecutive years.

### **Mandarin Debating Team**

Established in 2001, the UM Mandarin Debating Team has consistently excelled in prestigious international, national, and regional tournaments, as well as friendly competitions with universities worldwide. Among its many achievements, the team won 3 consecutive championships in the "Walk with the Constitution and the Basic Law – Chinese Debate Competition for Higher Education Institutions in Macao", claimed first place in the 1st "Star of CBA" Greater Bay Area Contest and the 6th International Chinese Debating Competition, secured victory in the 1st International Mandarin Debating Championship, and triumphed in both the 2nd and 3rd Return of Kings International Varsity Debating Contests. Beyond competitive success, the team is also dedicated to promoting and advancing Mandarin debating within the Macao S.A.R.

**Portuguese Debating Team**

Established in 2014, the UM Portuguese Debating Team aims to promote the Portuguese language on campus. It also provides trainings to members to enhance their debating skills, foster team spirit and develop collective problem-solving abilities. By taking part in debating competitions, the Portuguese Debating Team members have the opportunity to compete with their counterparts and improve their Portuguese proficiency.

**Public Speaking Team**

The UM Public Speaking Team was established in 2008. The team welcomes students who passionate about public speaking, possess good presentation skills and are confident in delivering speeches. Regular trainings are offered to team members to help them improve their speaking and presentation abilities. The team was also established to provide opportunities for English-speaking talents to participate in public speaking competitions.

**Choir**

The UM Choir was established in 2004. It aims to promote choral music and provide high-quality music performance for all UM members. The Choir actively performs in various University events and ceremonies and hold at least 2 concerts every year. It has also collaborated with other local and overseas choirs and participated in international choral events, such as the National Inter-Varsity Art Show, IFCM World Choral Expo and International Choir Festival – Grand Prix.

**Chinese Orchestra**

The UM Chinese Orchestra aims to promote Chinese music in the University. It currently consists of ten different sessions namely: Er Hu, Pi Pa, Di Zi, Gu Zheng, Liuqin, Ruan, Yangqin, Sheng, Souna and Chinese Percussion. The orchestra welcomes students with basic musical skills to join. It holds regular weekly training sessions and performs both on and off campus. Its repertoire covers a wide range of musical genres, from traditional to contemporary musical pieces.

**Dance Troupe**

The UM Dance Troupe was established in 2014 and consists of around 30 members from different faculties. The troupe aims to enrich the dance culture at UM and provide high-quality performances for all UM members. The team holds an annual showcase each academic year and actively participates in various university events and local dance activities.

**String Orchestra**

The UM String Orchestra, founded in 2009, is open to students with a passion for music and basic proficiency in orchestral performance. Comprising approximately 40 members, the ensemble is divided into 5 sections: first violin, second violin, viola, cello, and double bass. Through regular training sessions, the orchestra helps members refine their musical skills and provides opportunities to perform at a variety of internal and external events throughout the academic year.

**Symphonic Band**

The UM Symphonic Band, founded in 2007, holds the distinction of being Macao's first and only collegiate wind ensemble. Comprising approximately 70 members, it serves as a vibrant platform for band enthusiasts to perform, collaborate, and exchange musical ideas. Through regular rehearsals and diverse performances across campus events, the band actively contributes to the development of local wind music culture at UM. Notably, the ensemble earned first prize at the 6th National Inter-Varsity Art Show in Sichuan for their acclaimed performance of "Greensleeves", showcasing their artistic excellence on the national stage.

**Student Activity Centre**

The Student Activity Centre is a multi-purpose building located in the centre of the campus. It houses offices and conference rooms of the Student Affairs Office and University of Macau

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Students' Union (UMSU), as well as practice rooms and offices of C&A U-Teams. The centre also provides various venues for student activities, including a theatre, an outdoor plaza, a recreation room (Student's Corner), meeting rooms, a multi-function hall and multi-function rooms. A wide range of student activities and cultural events are held year-round, such as music concerts, dance performances, talent shows, competitions, film screenings, and more!

### **Sports Facilities**

The campus has various large-scale sports facilities, including the UM Sports Complex with a 10 lanes 50 metres long indoor swimming pool, UM Stadium suitable for soccer and track and field activities, plus many other indoor and outdoor sports facilities. The UM Sports Complex has a total net floor area of approximately 9,600 square metres. It can be used for large-scale events and performances.

Indoor sports facilities:

- UM Sports Complex
  - 1<sup>st</sup> Floor Common Area
  - Activity Room
  - Badminton Hall
  - Bouldering Wall
  - Dance Room
  - Fitness Room
  - Multi-Purpose Room
  - Sport Climbing Wall
  - Sports Pavilion
  - Squash Court
  - Swimming Pool
  - Table Tennis Room
  - Training Hall

Outdoor sports facilities:

- Archery Range
- Basketball Courts
- Beach Court
- Lawn Bowling Green
- Mini Artificial Soccer Pitch
- Tennis Courts & Practice Court
- UM Stadium
- Volleyball Court

### **Student Organizations and Development**

To facilitate the operation and development of student organizations, we give advice on the organization of student activities, provide support on resources and funding for student organizations. We also provide training, development activities, student leadership seminars and cultural exchange trips to help students become well rounded student leaders and to strengthen their competences. Operating student organizations offers a wide variety of opportunities for students to enhance their academic and social life on campus via involvement, leadership, and empowerment. These experiences nurture campus pride and student success to advance an inclusive and fruitful community.

### **The University of Macau Students' Union**

The University of Macau Students' Union (UMSU) was established on 29 March, 1993. Its office is located at Student Activity Centre (E31-1014). UMSU organizes extracurricular activities for students, aiming at enriching students' campus life. The University encourages students to actively participate in UMSU's activities and act as cabinet members of UMSU or its sub-organizations. All UM students can join UMSU and its sub-organizations but may be subject to

different membership fees.

There are currently 80 sub-organizations under UMSU, offering tailor-made services to suit the needs of students from different faculties, with different interests and demands.

- FAHSA - Faculty of Arts and Humanities Students' Association
- FBASA - Faculty of Business Administration Students' Association
- FEDSA - Faculty of Education Students' Association
- FHSSA - Faculty of Health Science Students' Association
- FLLSA - Faculty of Law Students' Association
- FSSSA - Faculty of Social Sciences Students' Association
- FSTSA - Faculty of Science and Technology Students' Association
- Boarders' Communication Students' Association
- China Mainland Students' Association
- Honours College Students' Association
- International Students' Association
- Academic Association
  - Accounting Society
  - American Society of Civil Engineers International Student Group, Department of Civil and Environmental Engineering at UM
  - Business Analytics Association
  - Chinese Society
  - Communication Society
  - Computer Society
  - Economic Society
  - Finance Society
  - History Association
  - Ichibankai Club
  - International Law Association
  - Institute of Electrical and Electronics Engineers Inc.,
  - Institution of Mechanical Engineers Student Chapter
  - Marketing Society
  - Mathematical and Interdisciplinary Modeling Association
  - Physic and Chemistry Society
  - Psychological Society
  - Robotics Club
  - Sociology Association
  - The Institute of Engineering and Technology, Hong Kong, Younger Members Section, Macao Students Section
  - The Macao Institution of Electrical and Mechanical Engineers Student Section
  - The Macau Institution of Engineers Student Members Division of University of Macau Students' Union
  - Tourism, Convention and Hospitality Society
- Culture & Recreation Association
  - Animation & Comic Society
  - Cantonese Debate Team
  - Chamber Music Society
  - Christian Fellowship
  - Cocktail & Coffee Learning Society
  - Culinary Art Society
  - Drama Society
  - English Debating Society
  - Entrepreneurship Society
  - Literature Club
  - Model Business Competition Society
  - Model Aircraft Society

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- Model United Nations Association
  - Music Society
  - Photography Society
  - Rotaract Club
  - Tea Culture Association
  - Toastmaster Club
  - Volunteer Society
  - Sports Association
    - American Football Club
    - Archery Association
    - Badminton Club
    - Basketball Club
    - Dance Society
    - Diabolo Sports Association
    - Dragon Boat Club
    - Fencing Club
    - Football Society
    - Handball Club
    - Judo Club
    - Karate Club
    - Kinball Club
    - Korfball Club
    - Orienteering Society
    - Rock Climbing Club
    - Rowing Club
    - Sailing Association
    - Squash Society
    - Table Tennis Club
    - Taekwondo Club
    - Tchoukball Club
    - Track and Field Club
    - Volleyball Club

### **The University of Macau Postgraduate Association**

The University of Macau Postgraduate Association (UMPA) was founded in July, 2005. Its office is located at the Postgraduate House (S3-G017). It aims at promoting a benign academic and cultural environment in accordance with the University Motto "Humanity, Integrity, Propriety, Wisdom and Sincerity"; advancing the all-rounded development of UM postgraduate students; enhancing the academic and cultural exchanges among postgraduates and undergraduates; tightening relationships with other associations in UM, Macau and abroad.

There are currently 10 sub-organizations under UMPA:

- Calligraphy Club
- Chinese Herbal Plant Association
- Faculty of Arts and Humanities Postgraduate Association
- Institute of Applied Physics and Materials Engineering Postgraduate Association
- Institute of Chinese Medical Sciences Postgraduate Association
- Society of Literature Theory in South China
- UM Mirror Newspaper Office
- Vision & Photography Association
- Youth Association of International Affairs
- Sports Association

# **Academic Support Services**

## Centre for Teaching and Learning Enhancement

The Centre for Teaching and Learning Enhancement (CTLE) is an academic support unit under the Vice Rector for Academic Affairs (VRAA). CTLE works with academic units, University Library, Residential Colleges and relevant administrative units and student bodies to enhance teaching and learning at UM. CTLE organizes professional development events in which local, regional and international experts share their expertise and insights on teaching and learning with UM's seasoned and new academic staff. CTLE works to identify and recognize exemplary teaching and educational initiatives. CTLE also works closely with the Information and Communication Technology Office (ICTO) to help academic staff in the use of technologies for enhancing student learning and engagement. Our website ([ctle.um.edu.mo](http://ctle.um.edu.mo)) contains information on professional development events, teaching and learning resources as well as e-learning tools.

Major functions of the Centre:

- To provide professional development programmes that help faculty members develop pedagogies for student-centred education;
- To provide teaching enhancement services, including consultations for academic staff;
- To provide advice and support on quality assurance matters and processes;
- To develop, review and evaluate teaching and learning policies and practices at UM;
- To work with different units in implementing outcome-based teaching and learning (OBTLE) and e-learning; and
- To support individuals, projects and educational programmes that exemplify excellence in teaching and learning.



## ACADEMIC SUPPORT SERVICES

**Information and Communication Technology Office**

The Information and Communication Technology Office (ICTO) provides general IT services and facilities for all UM members on campus. These services include Internet access, wired and wireless network connectivity across the campus, various applications such as Email, Student Information System (SIS) for course enrolment, course add/drop and study plan, Sports Facilities Booking System, etc. All users are provided with UMPASS which consists of UserID and password to access various services and applications.

Besides, ICTO also provides the following computing facilities:

- **myUM** is a portal service that provides an all-in-one access point to online services and information of the University. For more details, please visit (<https://myum.um.edu.mo>) or (<https://faq.icto.um.edu.mo/what-is-myum-portal>).
- **UM App** is a one-stop mobile application designed to provide staff, students, alumni, and public with convenient access to various UM services from mobile devices. For more details, please visit (<https://icto.um.edu.mo/mobile-applications/um-app/>).
- **Computer Room** are equipped with personal computers installed with Windows operating system and general application software, which located at Central Teaching Building (E5) and (E6). For more details, please visit (<https://icto.um.edu.mo/academic-computing-facilities/computer-room>).
- **Virtual Computer Room** allows students and staff to access the specialized software from their own personal computer or mobile device remotely. For more details , please visit (<https://icto.um.edu.mo/virtual-computer-room>).
- **Printing service** provides Follow-You student printing, WebPrint, Macau Pass printing and copying service for our students. For more details , please visit (<https://icto.um.edu.mo/printing>).
- **High Performance Computing Cluster (HPCC)** provides high performance computing resources, allows users to run the computational jobs on those connected computers simultaneously to achieve higher processing performance. For more details , please visit (<https://icto.um.edu.mo/teaching-learning-research/high-performance-computing-cluster-hpcc>).
- **Help Desk support** provides technical support to users who need help with ICT services. For more details , please visit (<https://icto.um.edu.mo/help-desk-services>).

In order to facilitate teaching and learning, the elearning systems (<https://elearning.um.edu.mo>) below are provided.

- **UMMoodle** provides a space for teachers to post teaching materials and conduct online activities. Users can have self-learning, online-testing, and lecture discussions, submit assignments and check their learning progress.

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- **ePortfolio** is a web system that allows users to record and share evidence of learning. It provides functions of blogs, social networking and learning records.
  - **Community** provides various activity modules for assisting users in managing attendance records and facilitating information sharing for academic research projects.
  - **Tencent Meeting and Teams** assists UM members in the organization of online meetings, presentations, interviews, teaching and learning activities.

For any general consultation and assistance in using facilities and services, please contact ICTO Help Desk at room E5-2085 of Central Teaching Building, email: [icto.helpdesk@um.edu.mo](mailto:icto.helpdesk@um.edu.mo). Moreover, in order to make the best possible use of the computing facilities and services, ICTO regularly offers training courses to our staff and students on the use of our computing facilities.

For more information about ICTO, please visit our homepage at <https://icto.um.edu.mo>.

## ACADEMIC SUPPORT SERVICES

**University Library****Wu Yee Sun Library: A Beacon of Knowledge at the University of Macau**

The Wu Yee Sun Library is an iconic landmark of the university, embodying a vibrant hub for academic and cultural engagement. It is dedicated to fostering a dynamic knowledge community that enriches every university member through abundant resources and cutting-edge services. The Library's mission is to support and advance excellence in learning, teaching, and research with accessible, anytime-anywhere services; meet the evolving needs of users through diverse collaborative learning spaces, advanced equipment, and technological innovations; promote academic integrity and lifelong learning through online and on-site workshops and information literacy programs; enrich campus culture through engaging talks, exhibitions, and diverse events; preserve institutional and regional cultural heritage through curated special collections, archives, and museums; and extend social impact through inter-library cooperation and alliances, serving external individuals and institutions.

Situated at the heart of the campus by a serene lake, the Library is fronted by a spacious plaza and connected to various faculties and the central teaching building via corridors and bridges. Designed by Professor He Jingtang, an academican of the Chinese Academy of Engineering, the library seamlessly blends Chinese and Western architectural elements, harmonizing with the campus's overall design philosophy. Spanning approximately 32,000 square meters, the seven-story main building features a striking square atrium with natural lighting, while floors one to three incorporate terraced sky gardens surrounded by greenery, creating an immersive "stroll through the woods" reading atmosphere. A circular exhibition hall above the main entrance, three floors high, spanning floors five to seven, engages in a spatial dialogue with the square atrium, reflecting traditional Chinese cosmological views and the library's inclusive character.

The Wu Yee Sun Library is equipped to support the university's academic programs, teaching, and research while aligning with the trend of collaborative learning in higher education. The main building, capable of housing one million books, offers 3,000 seats (including 710 for self-study), a lecture hall, information commons, rare book collection, and multimedia spaces. The south wing's ground floor hosts the university bookstore (Cultural Plaza), with its second and third floors housing the University Archives, established in 2021. The north wing's ground floor features a coffee lounge (Rose Garden), while its second and third floors house the University Museum of Art, which opened in 2023.

The library's collection, developed over more than 40 years, is the largest and most comprehensive in Macau, exceeding 17.9 million items. This includes 900,000 printed books, over 6,000 journal titles, 40,000 rare books, 30,000 audiovisual materials, nearly 1,000 calligraphy and painting artifacts, and 5,000 microfilm rolls. Its electronic resources are equally extensive, with 265 databases, 789,000 e-books, 17.48 million e-theses, 2,000 e-newspapers, and over 190,000 e-journals. The Archives hold over 3,000 special collections, while the Art Museum houses nearly 470 artworks with regular exhibitions and 2-3 large-scale exhibitions annually.

As Macau's premier academic library, the Wu Yee Sun Library provides convenient on-site and online services for its library, archive, and art museum resources. By fostering open learning spaces, embracing technological innovation, and upholding its mission to advance academic excellence and cultural preservation, it creates a dynamic environment for students, faculty, and the wider community, solidifying its role as a cornerstone of the University of Macau.

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# **Research Centres and Laboratories**

RESEARCH CENTRES AND LABORATORIES

## Research Centres

■ **BUSINESS RESEARCH AND TRAINING CENTRE**

**DIRECTOR 主任**

Matthew Ting Chi LIU 劉丁己

BSc (First class, Hons) in Mathematics/Economics, Nankai University

PhD in Economics, Lancaster University

■ **CANCER CENTRE**

**DIRECTOR 主任**

Chuxia DENG 鄧初夏

BSc, West China Normal University; MSc, Institute of Hydrobiology, Academia Sinica;

PhD, University of Utah

■ **CENTRE FOR APPLIED MATHEMATICS**

**DIRECTOR 主任**

Xiao-Chuan CAI 蔡小川

BSc, Peking University; MSc, PhD, Courant Institute, New York University

■ **CENTRE FOR ARTIFICIAL INTELLIGENCE AND ROBOTICS**

**HEAD 主任**

Jianbing SHEN 沈建冰

PhD in Computer Science, Zhejiang University

■ **CENTRE FOR ARTS AND DESIGN**

**DIRECTOR 主任**

Lampo LEONG 梁藍波

BFA, Guangzhou Academy of Fine Arts; MFA, California College of the Arts;

PhD, Central Academy of Fine Arts

■ **CENTRE FOR CHINESE HISTORY AND CULTURE**

**DIRECTOR 主任**

Shoutong ZHU 朱壽桐

BA, Suzhou University; MA, PhD, Nanjing University

**DEPUTY DIRECTOR 副主任**

Neng Ian CHEANG 鄭寧人

BA, Huaqiao University; MA, University of Macau; PhD, Tianjin Normal University

■ **CENTRE FOR COGNITIVE AND BRIAN SCIENCES**

**HEAD 主任**

Zhen YUAN 袁振

PhD, University of Sciences and Technology of China

- 
- **CENTRE FOR CONSTITUTIONAL LAW AND BASIC LAW STUDIES**  
**DIRECTOR 主任**  
Chaoyang JIANG 蔣朝陽  
PhD, LL.M, in the Constitutional Law and Administrative Law, Peking University;  
LLB, Peking University
  
  - **CENTRE FOR DATA SCIENCE**  
**HEAD 主任**  
Leong Hou U 余亮豪  
BA, National Chi Nan University; MA, University of Macau; PhD, The University of Hong Kong
  
  - **CENTRE FOR EARLY CHILDHOOD EDUCATION AND CHILD DEVELOPMENT**  
**DIRECTOR 主任**  
Juan ZHANG 張娟  
PhD, The Chinese University of Hong Kong
  
  - **CENTER FOR EMPIRICAL LEGAL STUDIES**  
**DIRECTOR 主任**  
Jianhong LIU 劉建宏  
PhD, in Criminology, State University of New York at Albany; MA, in Sociology, State University of New York at Albany; MA, in Philosophy, Nankai University;  
BS In Physics, South China Normal University
  
  - **CENTRE FOR ENGINEERING RESEARCH AND TESTING**  
**DIRECTOR 主任**  
Wai Kwok LO 盧偉國  
MSc, National Cheng Kung University
  
  - **CENTRE FOR INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION**  
**DIRECTOR 主任**  
Andy Chun Wai FAN 范進偉  
BSc, University of Keele; MSc, University of Strathclyde;  
PhD, Glasgow Caledonian University
  
  - **CENTRE FOR INNOVATION AND ENTREPRENEURSHIP**  
**HEAD 主任**  
Elaine Lai Han LEUNG 梁麗嫻  
BSc, MPhil, PhD, The Chinese University of Hong Kong
  
  - **CENTRE FOR LAW STUDIES**  
**DIRECTOR 主任**  
Manuel Marcelino ESCOVAR TRIGO 尹思哲  
LLB, LL.M, University of Coimbra
-

■ **CENTRE FOR LINGUISTICS**

**DIRECTOR 主任**

Jie XU 徐杰

BA, Henan University; MA, Central China Normal University; MA, University of Hawaii;  
PhD, University of Maryland at College Park

■ **CENTRE FOR PHARMACEUTICAL REGULATORY SCIENCES**

**DIRECTOR 主任**

Yuanjia HU 胡元佳

BSc, MSc, China Pharmaceutical University; MSc, PhD, University of Macau

**DEPUTY DIRECTOR 副主任**

Carolina Oi Lam UNG 吳靄琳

BPharm, MHSc, The University of Sydney; PhD, University of Macau

■ **CENTRE FOR PRECISION MEDICINE RESEARCH AND TRAINING**

**DIRECTOR 主任**

Chuxia DENG 鄧初夏

BSc, West China Normal University; MSc, Institute of Hydrobiology, Academia Sinica;  
PhD, University of Utah

■ **CENTRE FOR REGIONAL OCEANS**

**INTERIM DIRECTOR 代主任**

Jie XU 徐杰

BEng, MEng, Zhejiang University; PhD, Hong Kong University of Science and  
Technology

■ **CENTRE FOR SCIENCE AND ENGINEERING PROMOTION**

**DIRECTOR 主任**

Kam Weng TAM 譚錦榮

BS, PhD, University of Macau; PhD, Technical University of Lisbon

■ **CENTRE FOR STUDIES OF TRANSLATION, INTERPRETING AND COGNITION**

**DIRECTOR 主任**

Defeng LI 李德鳳

BA, MA, Nanjing Normal University; PhD, University of Alberta, Canada

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■ **CENTRE FOR THE GUANGDONG-HONG KONG-MACAO GREATER BAY AREA STUDIES**

**DIRECTOR 主任**

Richard Weixing HU 胡偉星

BLaw, Peking University; MA, Johns Hopkins University SAIS;

PhD, University of Maryland, College Park

**DEPUTY DIRECTOR 副主任**

Tianji CAI 蔡天驥

PhD, University of North Carolina

Xinshu ZHAO 趙心樹

BA, Fudan University; MA, Stanford University; PhD, University of Wisconsin - Madison

■ **CENTRE FOR TOURISM AND INTEGRATED RESORT STUDIES**

**DIRECTOR 主任**

Amy Siu Ian SO 蘇小恩

PhD, Hospitality and Tourism Marketing, Purdue University, West Lafayette, Indiana, USA

■ **CENTRE OF REPRODUCTION, DEVELOPMENT AND AGING**

**DIRECTOR 主任**

Wei GE 葛偉

BSc, Nanjing University; MSc, Institute of Hydrobiology, Academia Sinica;

PhD, University of Alberta

■ **CENTRE FOR JUDICIAL AND LEGAL STUDIES OF CHINA AND PORTUGUESE-SPEAKING COUNTRIES**

**DIRECTOR 主任**

Io Cheng TONG 唐曉晴

Bachelor of Law, University of Macau; Master of Law, Sun Yat-sen University;

PhD in Civil and Commercial Law, Chinese Academy of Social Sciences

■ **CHINESE-PORTUGUESE BILINGUAL TEACHING AND TRAINING CENTRE**

**DIRECTOR 主任**

Jing ZHANG 張靜

BA, MA, University of Macau; MBA, Macau University of Science and Technology;

PhD, University of Macau



■ **CONFUCIUS INSTITUTE**

**DIRECTOR** 院長

Jie XU 徐杰

BA, Henan University; MA, Central China Normal University; MA, University of Hawaii;  
PhD, University of Maryland at College Park

**DEPUTY DIRECTOR** 副院長

Zhong CHEN 陳忠

BA, Liaocheng Normal University; MA, Shandong Normal University;  
PhD, Fudan University

■ **EDUCATIONAL RESEARCH CENTRE**

**DIRECTOR** 主任

Emily Pey-Tee OON 溫佩娣

BSc, Universiti Teknologi Malaysia; MEd, Universiti Sains Malaysia;  
PhD, Nanyang Technological University

■ **EDUCATIONAL TESTING AND ASSESSMENT RESEARCH CENTRE**

**DIRECTOR** 主任

Kwok Cheung CHEUNG 張國祥

BSc, MEd, University of Hong Kong; PhD, University of London

■ **INSTITUTE FOR THE STUDY OF COMMERCIAL GAMING**

**DIRECTOR** 所長

Davis Ka Chio FONG 馮家超

BBA, MBA, University of Macau; PhD, Tsinghua University

■ **INSTITUTE OF ADVANCED STUDIES IN HUMANITIES AND SOCIAL SCIENCES**

**DIRECTOR** 院長

Xingzhong YU 於興中

BA, Lanzhou University; MA, Harvard University; PhD, Harvard University

■ **INSTITUTE OF GLOBAL AND PUBLIC AFFAIRS**

**DIRECTOR** 主任

Wei PAN 潘維

BA& MA, Department of International Politics, Peking University;  
PhD, University of California, Berkeley

**DEPUTY DIRECTOR** 副主任

Francisco José BERNARDINO DA SILVA LEANDRO

BL, Autonomous University of Lisbon, Portugal; PhD, Catholic University of Portugal

■ **INSTITUTE OF TRANSLATIONAL MEDICINE**

**DIRECTOR** 主任

To be confirmed 待定

- 
- **MACAO CENTRE FOR RESEARCH AND DEVELOPMENT IN CHINESE MEDICINE**  
**DIRECTOR 主任**  
Peng LI 李鵬  
BSc, MSc, Chengdu University of TCM; MSc, PhD, University of Macau  
  
**DEPUTY DIRECTOR 副主任**  
Shengpeng WANG 王勝鵬  
BSc, Chengdu University of TCM; PhD, University of Macau  
  
**DEPUTY DIRECTOR 副主任**  
Ru YAN 燕茹  
BSc, MPhil, China Pharmaceutical University; PhD, The Chinese University of Hong Kong
  
  - **MACAO CENTRE FOR TESTING OF CHINESE MEDICINE**  
**DIRECTOR 主任**  
Shaoping LI 李紹平  
MSc, PhD, China Pharmaceutical University
  
  - **MACAU INSTITUTE FOR TRANSLATIONAL MEDICINE AND INNOVATION**  
**INTERIM ASSOCIATE HEAD 代副院長**  
Yong Hua ZHAO 趙永華  
BSc in Chinese Medicine, Heilongjiang University of Chinese Medicine;  
MSc in Integrative Clinical Medicine, Liaoning University of Traditional Chinese Medicine; MD in Chinese Internal Medicine, Guangzhou University of Chinese Medicine
  
  - **MINISTRY OF EDUCATION FRONTIERS SCIENCE CENTER FOR PRECISION ONCOLOGY, UNIVERSITY OF MACAU**  
**CHIEF SCIENTIST 首席科學家**  
Chuxia DENG 鄧初夏  
BSc, West China Normal University; MSc, Institute of Hydrobiology, Academia Sinica; PhD, University of Utah
  
  - **RESEARCH CENTRE FOR HUMANITIES IN SOUTH CHINA**  
**DIRECTOR 主任**  
Gang GONG 龔剛  
BA, Hangzhou University; MA, Doctor of Arts, Peking University
  
  - **RESEARCH CENTRE FOR LUSO-ASIAN STUDIES**  
**DIRECTOR 主任**  
Mário Rui Lima de Oliveira Pinharanda NUNES  
Licenciatura em Línguas e Literaturas Modernas (Variante Inglês/Alemão), University of Lisbon (Classic University); MA, PhD, University of Macau

- **RUSSIAN CENTRE**  
**DIRECTOR 主任**  
Tianji CAI 蔡天驥  
PhD, University of North Carolina

## Laboratories

The University continuously puts in resources to develop various laboratories according to the needs for course development, teaching and research. The various laboratories are listed as follows:

### List of Laboratories

#### Biomedical Sciences Laboratories

- Animal Research Core
- Biological Imaging and Stem Cell Core
- Genomics, Bioinformatics and Single Cell Analysis Core
- Proteomics, Metabolomics and Drug Development Core

#### Center for Cognitive Brain and Science (CCBS) Laboratories

- Brain Intervention Core
- Cognition and Behavioral Data Collection Core
- High Performance Computing Facility
- Institute of Biophysics of Chinese Academy of Sciences – University of Macau Joint Research Laboratory of Brain and Cognitive Sciences
- Neuroimaging Core

#### China Southern Power Grid – University of Macau Joint Laboratory of Smart Power and Energy for Carbon Neutrality

#### Guangdong-Hong Kong-Macao Joint Laboratories

- Guangdong-Hong Kong-Macao Joint Laboratory for Smart Cities
- Guangdong-Hong Kong-Macao Joint Laboratory of Human-Machine Intelligence-Synergy Systems
- Guangdong-Hong Kong-Macao Neutron Scattering Science and Technology Joint Laboratory
- Guangdong-Macao Joint Laboratory of Advanced and Intelligent Computing

#### Ministry of Education Joint Key Laboratory

- Sun Yat-Sen University – University of Macau Ministry of Education Joint Key Laboratory

#### State Key Laboratories

- The State Key Laboratory of Analog and Mixed-Signal VLSI (University of Macau)
- The State Key Laboratory of Internet of Things for Smart City (University of Macau)
- The State Key Laboratory of Quality Research in Chinese Medicine (University of Macau)

#### University of Macau - Chinese Academy of Sciences Joint Laboratories

- Joint Laboratory of Aerospace Information

- Joint Laboratory of Artificial Intelligence and Robotics
- Joint Laboratory of Ocean Environment and Engineering

### University of Macau – BoardWare Macau Joint-Laboratory

### University of Macau – Huafa Group Joint Laboratory

#### Science and Technology Laboratories

- Advanced Physics Laboratory
- Analog Electronics Laboratory
- Antenna and Electromagnetic-Wave Laboratory
- Automation Laboratory
- Automotive Engineering Laboratory
- Biomedical Engineering Laboratory
- Biomedical Imaging Laboratory
- Chemistry Laboratory
- Clean Room
- Cloud Computing and Distributed Systems Laboratory
- Computational Engineering Laboratory
- Computer Graphics and Multimedia Laboratory
- Control Laboratory
- Construction Materials Laboratory
- Corrosion & Metallography Laboratory
- Crystal Growth and Atomic Force Microscope Laboratory
- Crystal Structure Laboratory
- Cyber and Crypto Laboratory
- Data Analytics and Collaborative Computing (DACC) Laboratory
- Data-Driven Intelligent Systems Laboratory
- Distributed Systems Laboratory
- Dynamics and Monitoring (DYAMON)Laboratory (IoTSC)
- E-Commerce Technology Laboratory
- E-Home Healthcare Engineering Laboratory
- Electric Power Engineering Laboratory
- Electrical Machines and Drives Laboratory
- Electron Microscopes Laboratory
- Electronics Workshop
- Embedded Systems Laboratory
- Environmental Biotechnology Laboratory
- Environmental Engineering Laboratory
- General Physics Laboratory
- Geomechanics Laboratory
- Geo-modelling & Wave Laboratory
- Geotechnical Engineering Laboratory
- Green Energy Materials Laboratory
- Hydraulics Laboratory
- Image Processing and Pattern Recognition Laboratory
- Immersive Interactive Technology Laboratory
- Industrial Engineering Laboratory
- Innovative Design and Integrated Manufacturing Laboratory
- Inorganic/Organic Engineering Material Laboratory
- Intelligent Unmanned Systems Laboratory
- Internet of Things Engineering Laboratory
- Laboratory for Ocean and Atmospheric Research

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- Laboratory for Ocean Environmental Pollution Analysis and Assessment
  - Laboratory for Ocean Environmental Pollution Prevention and Remediation
  - Laboratory for Ocean Environmental Simulation and Modelling
  - Laser and Optics Laboratory
  - Laser Processing Laboratory
  - Machine Workshop
  - Mathematics Laboratory 1
  - Mathematics Laboratory 2
  - Measurement and Instrumentation Laboratory
  - Mechanical Characterisation and Testing Laboratory
  - Metallography Laboratory
  - Microscopy Laboratory
  - Motion Capture Laboratory
  - Natural Language Processing & Portuguese-Chinese Machine Translation Laboratory (NLP2CT)
  - Physical Chemistry Laboratory
  - Physical Properties Measurement Laboratory
  - Quantum Devices Fabrication/Testing Laboratory
  - Raman Spectroscopy Laboratory
  - Robotics Laboratory
  - Scanning Electron Microscope (SEM) Laboratory
  - Sensor-based Cooperative Robotics Laboratory
  - Smart and Micro/Nano Systems Laboratory
  - Smart Environment & Cybernetics System Laboratory
  - Soft Matter Engineering Laboratory
  - Soft Sensors-Actuators-Robotics Laboratory
  - Solar Energy Laboratory
  - Spectroscopy Laboratory
  - Stochastic Mechanics Laboratory
  - Strength of Materials Laboratory
  - Structures Laboratory
  - Surveying Laboratory
  - Thermal Engineering Laboratory
  - Thin-Walled Structure Laboratory
  - Transportation Engineering Laboratory
  - Tribology Laboratory
  - Ultrafast Laser Laboratory
  - Vision and Image Processing Laboratory
  - Visual Information Processing Laboratory
  - Wireless Communication Laboratory
  - X-ray Diffraction Laboratory
  - X-ray Photoelectron Spectroscopy Laboratory

#### **Other Laboratories**

- Accounting and Information Management Laboratory I
- Black Box Theatre
- Cognitive Studies Laboratory
- Conference Room/Sl Lab
- Creative Media Lab
- Currency Museum
- Exhibition Room
- Finance and Economics Laboratory
- Hospitality Laboratory
- ISCG Gaming Laboratory
- Kinesiology Laboratory

- Linguistics Laboratory
- MICE Laboratory
- Mock Hotel Room
- Science Laboratory
- Thomson Reuters Trading Room

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# Appendices



# **Honorary Degrees and Titles**

## Honorary Degrees and Titles

1984	Ho Yin 何賢	Doctor of Business Administration <i>honoris causa</i>
	Vasco de Almeida e Costa	Doctor of Public Administration <i>honoris causa</i>
	J.M. Toscano Rico	Doctor of Philosophy <i>honoris causa</i>
	Stanley Ho Hung-Sun 何鴻燊	Doctor of Social Sciences <i>honoris causa</i>
	Jorge A.H. Rangel	Doctor of Letters <i>honoris causa</i>

1985	Ma Man-Kei 馬萬祺	Doctor of Business Administration <i>honoris causa</i>
	Sir Run Run Shaw 邵逸夫	Doctor of Social Sciences <i>honoris causa</i>
	Monsenhor Manuel Teixeira	Doctor of Letters <i>honoris causa</i>

1986	Cheng Yu-Tung 鄭裕彤	Doctor of Business Administration <i>honoris causa</i>
	D. Arquímínio Rodrigues da Costa	Doctor of Philosophy <i>honoris causa</i>
	Eduardo de Arantes e Oliveira	Doctor of Philosophy <i>honoris causa</i>
	Chou Wen-Hsien 周文軒	Doctor of Social Sciences <i>honoris causa</i>
	Chui Tak-Kei 崔德祺	Doctor of Social Sciences <i>honoris causa</i>

1987	Carlos Augusto Pulido Valente Monjardino	Doctor of Business Administration <i>honoris causa</i>
	Lee Shau Kee 李兆基	Doctor of Business Administration <i>honoris causa</i>
	Yung Yau 翁祐	Doctor of Business Administration <i>honoris causa</i>
	John Horlock	Doctor of Science <i>honoris causa</i>
	Qian Wei-Chang 錢偉長	Doctor of Science <i>honoris causa</i>
	Thomas Neil Morris Waters	Doctor of Science <i>honoris causa</i>
	Fei Xiaotong 費孝通	Doctor of Social Sciences <i>honoris causa</i>
	Jack Austin	Doctor of Social Sciences <i>honoris causa</i>
	Joaquim Pinto Machado	Doctor of Social Sciences <i>honoris causa</i>
	Fernando Alves Cristovão	Doctor of Letters <i>honoris causa</i>
	Ma Lin 馬臨	Doctor of Letters <i>honoris causa</i>
	Henry A. Kissinger	Doctor of Law <i>honoris causa</i>
	Lord Asa Briggs	Doctor of Law <i>honoris causa</i>
	Lord Kadoorie	Doctor of Law <i>honoris causa</i>
	Pierre E. Trudeau	Doctor of Law <i>honoris causa</i>
	Rayson Huang 黃麗松	Doctor of Law <i>honoris causa</i>

1989	Ye Xuanping 葉選平	Doctor of Public Administration <i>honoris causa</i>
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1991	Charles Boxer	Doctor of Letters <i>honoris causa</i>
	José Augusto Seabra	Doctor of Letters <i>honoris causa</i>
	Peter Y. L. Eng 吳毓璘	Doctor of Social Sciences <i>honoris causa</i>
	Daisaku Ikeda 池田大作	Honorary Professor

1992	Hsueh Shou Sheng 薛壽生	Doctor of Social Sciences <i>honoris causa</i>
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1993	Mário Alberto Nobre Lopes Soares	Doctor <i>honoris causa</i>
	João de Matos Antunes Varela	Doctor of Law <i>honoris causa</i>
	João José Rodiles Fraústo da Silva	Doctor of Social Sciences <i>honoris causa</i>

1995	Li Tianqing 李天慶	Doctor <i>honoris causa</i>
	Rui Nogueira Lobo de Alarcão e Silva de Alarcão	Doctor <i>honoris causa</i>
	Daisaku Ikeda 池田大作	Doctor of Social Sciences <i>honoris causa</i>

1998	Joaquim Alberto Chissano	Doctor <i>honoris causa</i>
	Leung Pai Wan 梁披雲	Doctor of Arts <i>honoris causa</i>
	Wei Yu 韋鈺	Doctor of Education <i>honoris causa</i>
	Eduardo Arantes e Oliveira	Doctor of Engineering <i>honoris causa</i>

2000	Wang Dazhong 王大中	Doctor of Science <i>honoris causa</i>
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2002	Yau Shing Tung 丘成桐	Doctor of Science <i>honoris causa</i>
	Joseph Stiglitz	Doctor of Social Sciences <i>honoris causa</i>

2004	João Malaca Casteleiro	Doctor of Letters <i>honoris causa</i> & Honorary Professor
	Jao Tsung-I 饒宗頤	Doctor of Humanities <i>honoris causa</i> & Honorary Professor
	Liu Chung Laung 劉炯朗	Doctor of Science <i>honoris causa</i> & Honorary Professor
	James Mirrlees	Doctor of Social Sciences <i>honoris causa</i> & Honorary Professor

2005	Yum-Tong Siu 蕭蔭堂	Honorary Professor
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2006	João Ruiz de Almeida Garrett	Doctor of Law <i>honoris causa</i>
	Han Qide 韓啟德	Doctor of Science <i>honoris causa</i>
	José de Albuquerque Epifânio da Franca	Doctor of Science <i>honoris causa</i>
	Paul Ching-Wu Chu 朱經武	Doctor of Science <i>honoris causa</i>
	Su-Seng Pang 彭樹成	Doctor of Science <i>honoris causa</i>
	Yum-Tong Siu 蕭蔭堂	Doctor of Science <i>honoris causa</i>

2008	William Richard Eadington	Doctor of Business Administration <i>honoris causa</i>
	Li Zhaoxing 李肇星	Doctor of Humanities <i>honoris causa</i>
	Henrique Rodrigues de Senna Fernandes	Doctor of Letters <i>honoris causa</i>
	Alfred Yiu Fai Wong 黃耀輝	Doctor of Science <i>honoris causa</i>

2009	Gu Mingyuan 顧明遠	Doctor of Education <i>honoris causa</i>
	Tu Weiming 杜維明	Doctor of Humanities <i>honoris causa</i>
	Wang Meng 王蒙	Doctor of Letters <i>honoris causa</i>
	George Herbert Walker Bush	Doctor of Social Sciences <i>honoris causa</i>
	Franco Maloberti	Honorary Professor

2010	Lancelote Miguel Rodrigues	Doctor of Humanities <i>honoris causa</i>
	Xu Jialu 許嘉璐	Doctor of Humanities <i>honoris causa</i>
	Wang Xiaodong 王曉東	Doctor of Science <i>honoris causa</i>
	Wong King Keung 黃景強	Doctor of Social Sciences <i>honoris causa</i>

2011	Louis Cha 查良鏞	Doctor of Letters <i>honoris causa</i>
	Lei Seng Chon 李成俊	Doctor of Humanities <i>honoris causa</i>
	Francisco J. Ayala	Doctor of Science <i>honoris causa</i>
	Chia-Wei Woo 吳家瑋	Doctor of Social Sciences <i>honoris causa</i>

2012	Master Hsing Yun 星雲大師	Doctor of Humanities <i>honoris causa</i>
	Andrew Chi-Chih Yao 姚期智	Doctor of Science <i>honoris causa</i>
	Arden Lee Bement, Jr.	Doctor of Science <i>honoris causa</i>
	Ambrose So Shu Fai 蘇樹輝	Doctor of Social Sciences <i>honoris causa</i>

2013	Jiang Shusheng 蔣樹聲	Doctor of Education <i>honoris causa</i>
	Xue Hanqin 薛捍勤	Doctor of Law <i>honoris causa</i>
	Yu Kwang Chung 余光中	Doctor of Letters <i>honoris causa</i>
	Sérgio Machado dos Santos	Doctor of Science <i>honoris causa</i>

2014	Robert C. Merton	Doctor of Business Administration <i>honoris causa</i>
	Mo Yan 莫言	Doctor of Letters <i>honoris causa</i>
	Chen-Ning Franklin Yang 楊振寧	Doctor of Science <i>honoris causa</i>
	Lee Chack Fan 李焯芬	Doctor of Science <i>honoris causa</i>
	Siu Yin Wai 邵賢偉	Doctor of Science <i>honoris causa</i>

2015	Ma Iao Lai 馬有禮	Doctor of Business Administration <i>honoris causa</i>
	Lap-Chee Tsui 徐立之	Doctor of Education <i>honoris causa</i>
	Pai Hsien-yung 白先勇	Doctor of Letters <i>honoris causa</i>
	Mario R. Capecchi	Doctor of Science <i>honoris causa</i>
	Zhong Nanshan 鍾南山	Doctor of Science <i>honoris causa</i>

2016	Jia Pingwa 賈平凹	Doctor of Letters <i>honoris causa</i>
	Tse Chi Wai 謝志偉	Doctor of Social Sciences <i>honoris causa</i>
	Carl Edwin Wieman	Doctor of Science <i>honoris causa</i>

2017	He Jingtang 何鏡堂	Doctor of Science <i>honoris causa</i>
	Henry T. Yang 楊祖佑	Doctor of Science <i>honoris causa</i>
	Binglin Zhong 鍾秉林	Doctor of Education <i>honoris causa</i>
	Ada Yonath	Doctor of Science <i>honoris causa</i>

2018	Joseph Sung Jao-yiu 沈祖堯	Doctor of Education <i>honoris causa</i>
	Anthony Lau Siu Wing 劉少榮	Doctor of Business Administration <i>honoris causa</i>
	Lao Ngai Leong 劉藝良	Doctor of Social Sciences <i>honoris causa</i>
	Wang Anyi 王安憶	Doctor of Letters <i>honoris causa</i>
	Aaron J. Ciechanover	Doctor of Science <i>honoris causa</i>

2019	Qiao Xiaoyang 喬曉陽	Doctor of Law <i>honoris causa</i>
	Lau Sin Peng 劉羨冰	Doctor of Education <i>honoris causa</i>
	Dennis Lo Yuk Ming 盧煜明	Doctor of Science <i>honoris causa</i>
	Chung Chi Ping Roy 鍾志平	Doctor of Business Administration <i>honoris causa</i>

2020	Shuji Nakamura 中村修二	Doctor of Science <i>honoris causa</i>
	Kaixian Chen 陳凱先	Doctor of Science <i>honoris causa</i>
	Lawrence Juen-yee Lau 劉遵義	Doctor of Education <i>honoris causa</i>

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<b>2021</b>	Chio Fai Aglaia Kong 江朝暉	Doctor of Science <i>honoris causa</i>
	Zhu Lilan 朱麗蘭	Doctor of Science <i>honoris causa</i>
	Lee Hau Leung 李效良	Doctor of Business Administration <i>honoris causa</i>
	Li Lanjuan 李蘭娟	Doctor of Science <i>honoris causa</i>

<b>2022</b>	Cai Fang 蔡昉	Doctor of Social Sciences <i>honoris causa</i>
	Leong Kam Weng 梁錦榮	Doctor of Science <i>honoris causa</i>
	Wong Ching-Ping 汪正平	Doctor of Science <i>honoris causa</i>

<b>2023</b>	Franco Maloberti	Doctor of Science <i>honoris causa</i>
	William Shiyuan Wang 王士元	Doctor of Humanities <i>honoris causa</i>

<b>2024</b>	Dilma Vana Rousseff	Doctor of Social Sciences <i>honoris causa</i>
	Gong Qihuang 龔旗煌	Doctor of Science <i>honoris causa</i>

# **Arrangements of Classes and Final Examinations during Typhoons or Rainstorms in Macao**

## Arrangements of Classes and Final Examinations during Typhoons or Rainstorms in Macao

(Approved by the Senate on 12 August 2020)

- **Tropical Cyclone Signal No.1 or No. 3/Yellow or Red Rainstorm Warning Signal**  
When Tropical Cyclone Signal No. 1 or No. 3/Yellow or Red Rainstorm Warning Signal is hoisted, all classes and final examinations will be held as scheduled.
- **Tropical Cyclone Signal No. 8 (or above)/Black Rainstorm Warning Signal**  
When Tropical Cyclone Signal No. 8 (or above)/Black Rainstorm Warning Signal is hoisted or cancelled, the following arrangements will be made for classes and final examinations:

Arrangement of classes and final examinations when the signal is hoisted	
<b><u>Before</u></b> the classes and final examinations start	<p>All classes, final examinations and outdoor teaching activities will be suspended until the related signal is cancelled.</p> <p><i>(E.g.: If the signal is announced at 17:00 to be hoisted at 22:00, all classes, final examinations and outdoor teaching activities which begin after 17:00 will be suspended.)</i></p>
<b><u>After</u></b> the classes and final examinations start	<p>All classes and outdoor teaching activities* will be suspended immediately while final examinations will be continued till the end as scheduled.</p> <p>* The staff responsible should take all students to a safe place and make sure that it is safe for them to leave.</p> <p><i>(E.g.: If the signal is announced at 17:00 to be hoisted at 22:00, all classes and outdoor teaching activities (those that began at 17:00 or earlier) will be suspended immediately while final examinations will be continued till the end as scheduled.)</i></p>
Arrangement of classes and final examinations when the signal is cancelled	
<p>Classes and final examinations which begin <b><u>2 hours after</u></b> the cancellation of signal will be held as scheduled. All outdoor teaching activities on that day will be cancelled.</p> <p><i>(E.g.: If the signal is cancelled at 13:00, classes and final examinations which begin at or after 15:00 will be held as scheduled.)</i></p>	

1. Academic units will announce arrangements for final examination postponement on their webpages.
2. The above arrangements are not applicable to the practicum or internship courses. Students who are doing these courses should follow the related arrangements and guidelines of the host organization.



# **Guidelines for Student Conduct in the Classrooms**

## **Guidelines for Student Conduct in the Classrooms**

(Approved by the University Senate Pedagogic Council on 14 May 2004)

The classrooms are for teaching and learning. Students should pay attention to the lecture and participate actively during the lecture. Students must strictly adhere to the following rules:

- Be punctual and attend the full lecture;
- Be quiet;
- Turn off mobile phones and pagers. These devices are not to be used during class.
- Don't move about or leave the classroom during the lecture unless you have permission of the teacher;
- No smoking;
- No drink or foods;
- Avoid all unauthorized activity that interferes with or interrupts teaching and learning.

If a student violates any of the above rules, he/she will receive a warning from the teacher. The teacher may also ask a student guilty of misconduct to leave the class immediately and may further report the incident to the Head of the Academic Unit concerned for consideration of disciplinary action.

# **Acceptable Use Policy - ICTO Computing Facilities, Campus Network and Internet**

## Acceptable Use Policy

### - ICTO Computing Facilities, Campus Network and Internet

(Approved by the Rector on 17 May 2021)

#### 1. Introduction

##### 1.1 Purpose

The purpose of this policy is to ensure that the use of information and communication facilities and services provided by Information and Communication Technology Office (ICTO) is consistent with the highest standards and practices of teaching, learning, research and administration.

##### 1.2 Policy

According to the "Regulations of the Organizational Structure of the University of Macau", ICTO is given the major authority to provide the necessary information and communication facilities and services for teaching, learning, research and administration, it also authorizes ICTO to supervise the proper use of rights of the related facilities and services on behalf of the University of Macau. Users shall abide by this policy and are also bound by the applicable laws of Macao and University's related policies as well.

##### 1.3 Scope

All users (staff, students, visitors, contractors and others) who are using the University's information and communication facilities and services are bound by the provisions of this policy.

#### 2. Code of Use

2.1 Be consistent with academic, research and administration purposes, policies and goals of the University.

2.2 Information and communication facilities and services shall be used appropriately, and only for conduct in accordance with your role in the University.

2.3 The establishment or use of information and communication systems, facilities and services shall comply with the laws of Macao.

2.4 Do not conduct or attempt to conduct in any manner that endanger information security, including but not limited to improper acts of interference, interruption, intrusion or paralysis of services on any network, information and communication systems or facilities inside and outside the University.

2.5 Unless otherwise agreed by ICTO, a user's right to use the related facilities and services is nontransferable.

2.6 Unless otherwise agreed by ICTO, the security measures of information and communication systems or facilities shall not be disabled, interfered with or removed, and users are not allowed to install and use any unauthorized computer programs.

- 2.7 Users shall not process, store, publish, broadcast or bulk-distribute the following with information and communication facilities and services:
  - Contents that violate the laws of relevant regions and advocate or promote any illegal behavior;
  - Contains any contents of harassment, bullying, curse, intimidation, hatred, defamation, threat, discrimination, extremism or rumor, etc., and that may intensify contradictions and conflicts;
  - Contains objectionable, obscene or indecent contents;
  - Contents used for personal, political, economic, or commercial benefits;
  - Information that is not related to your role in the University.
- 2.8 If you, as a service provider, need to provide information services to users in the University, or set up networks, information and communication systems or facilities in the University, you shall conduct risk assessment, periodic maintenance, defining appropriate security measures and guidelines for related services, systems or facilities. In addition, you shall obtain comment from ICTO first.
- 2.9 When you need to access University's internal data, you shall take appropriate data protection measures, and you shall use suitable facilities to process, store, and transfer the related data.
- 2.10 In case you encounter any information security incident, you shall notify ICTO as soon as possible, and shall provide necessary information for incident investigation.
- 2.11 All users shall follow the Guidelines for User Account and Password, and are responsible for keeping passwords secure and confidential. Password shall be changed periodically or two-factor authentication service shall be enabled for account protection. For any loss occurrence of identity and authorization tools, such as passwords, e-certificates, you shall notify ICTO as soon as possible.
- 2.12 If a research project has a potential violation of relevant policies, you shall obtain comment from ICTO first.
- 2.13 Before visitors, outsourced service personnel or service providers having access to any UM systems, the relevant reception unit and personnel shall ensure that they have signed a non-disclosure agreement, and comply with this policy.

### **3. Relevant examples of the policy mentioned above for reference:**

- 3.1 Abuse of information and communication facilities and services
  - Malicious occupy extra computers in learning common;
  - Eating and playing in the computer room;
  - Unplug the cables of university equipment, such as power cord, network cable etc. in order to connect your own electronic device;
  - Use University's facility to play video games or browse pornographic websites;
  - Loan, rent or sell your user account to let others obtain computer services of the University;
  - Send bulk-mail to the University users to promote promotional activities of your friend's new shop;
  - Use the University email address to register a personal online shop for running a business.

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### 3.2 Hazard information and communication facilities:

- Use or access to any computer system without authorization inside or outside the University;
- Delete, modify or insert data to a system without authorization;
- Hire or assist hackers to attack the campus network or information system;
- Unplug the power supply of the wireless network device to interrupt the service;
- Distribute spam mail or viruses to cause network congestion or interfere with the works of others;
- To conduct network scanning activities or experiments to test system vulnerabilities without the consent of ICTO, or to monitor or steal information on the campus network or information system;
- No matter intentionally or unintentionally, whether with or without tangible or intangible damage to information and communication facilities, to alter any university information system, hardware and software without authorization.

### 3.3 Improper handling of information or abusing of information services:

- Publish tools or methods that can hack the University system in the discussion forum;
- Pick up external storage devices in campus area and read the content without authorization;
- Use personal email to process UM's administrative information or data;
- Store or process any protected information or data by using public cloud services or tools (e.g. online file hosting services or instant messaging tools), or use communication tools or network services in public places to process any protected information or data;
- Click an hyperlink or open an attachment of an suspicious email;
- Browse untrusted websites;
- Use, distribute, or crack any copyright-protected materials, such as computer software, audio-visual products, and works, without the consent of the copyright owner.

### 3.4 Research project potentially violating this policy:

- Research on wireless network technology (if it would cause interference to the signal of the university's wireless network, users shall obtain comment from ICTO first);
- Research on new technology of cellular base stations must comply with the laws of Macao, users are recommended to seek legal advice before proceeding.

## 4. Major applicable laws of Macao and the University's policies:

- Law on Combating Computer Crime
- The Macau Cybersecurity Law
- Personal Data Protection Act
- Electronic Governance (Governação electrónica)
- Privacy Policy, UM
- University Policy on Use of Computer Software within Campus, UM
- Guidelines for User Account and Password, UM
- Other applicable laws against criminal behaviors on Internet, and other University's policies and guidelines

For relevant applicable laws, policies and guidelines, please refer to <https://icto.um.edu.mo/infosec>.

## **5. Consequences of breach**

In the event of a breach of this policy, ICTO may, in its sole discretion, suspend or terminate all rights of users to use the information and communication facilities and services. The University may also take disciplinary action or other appropriate measures. If it involves illegal activities, the user may take the legal responsibility.

*(The University reserves the right of final interpretation of this policy.)*

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# **Academic Computing Facility Room Rules**



## APPENDICES

**Academic Computing Facility Room Rules**

(Approved by the Rector on 18 August 2023)

**1. Introduction**

The academic computing facility room provides several computing facilities for use by staff and students of University of Macau. The following rules and guidelines which governs the use of computer rooms, OMR, personal multimedia computer rooms and printing rooms, may from time to time be amended as necessary.

**2. Usage Guidelines**

- 2.1 Before using the computing room, user should read and agree with the policies as stated in the document ICTO.04/201210/001 "Acceptable Use Policy - ICTO Computing Facilities, Campus Network and Internet".
- 2.2 Always keep the room environment clean.
- 2.3 User should clear up all their belongings after using the facilities and leaving the room.
- 2.4 In case of any malfunction of any equipment, user should inform ICTO through service hotline or via e-mail to ICTO Help Desk. Under no circumstances should users attempt to repair any equipment themselves.
- 2.5 When there is no further use of the computing facility room, user should leave the room.
- 2.6 User should pay attention and follow the instructions provided by ICTO staff and those guidelines being posted in the room and on the door.
- 2.7 If it was identified that a user had left the computing facility room and the PC he/she had been using was no further in use, ICTO reserves the right to release it for other users to use. ICTO is not responsible for any loss of data/work from the release actions.

**3. Usage Rules**

- 3.1 User should bring his/her valid campus card when using the computing facility room.
- 3.2 User should only use one computer at any one time.
- 3.3 Smoking is strictly prohibited in computing facility room at all times.
- 3.4 Maintain silence and refrain from disturbing other users.
- 3.5 Do not litter in computing facility room.
- 3.6 Do not bring any food and beverages into or eating or drinking in the computing facility room.

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- 3.7 User should make sure that their self-provided portable storage devices are virus free before using them in the computing facility room.
  - 3.8 Under any circumstances listening to music, watching movies and playing computer games are not allowed in the computing facility room unless it is for academic purpose.
  - 3.9 Users are allowed to use PC speakers only when they are in an instructor-led class or in preparing multimedia files in personal multimedia computer rooms.
  - 3.10 Do not move any equipment, sockets, and/or cables from their original locations.
  - 3.11 Do not use any account set up for another user; or try to make any attempt to find out the password of a service for which you have not been authorized, including accounts set up for other users.
  - 3.12 Do not disturb, delete or tamper with the programme/data files of ICTO and of other users.
  - 3.13 Do not run any software or print any job that is not for academic purposes
  - 3.14 Computing facility rooms should not be used for any purposes other than the use of computing facilities.
  - 3.15 Users are reminded that the use of unlicensed software, as well as the unauthorized copying of software, is strictly prohibited on University equipment. Users are solely responsible for any and all unlicensed software and documentation in their possession.
  - 3.16 The use of computing facilities and Audio-video system on the teacher's desk is allowed only under the lead of and/or permitted by the instructor.

#### **4. Penalties for Misconduct and Abuse of Using Computing Facilities and Services**

- 4.1 User who had violated any of the above stated usage rules will be warned instantly to stop the said activity or will be asked to leave the room immediately. Records will be marked down for further reference.
- 4.2 User who had violated any of the above stated usage rules, ICTO reserved the right to suspend his/her privileged of using the following ICTO services: computer rooms, virtual computer room, personal multimedia computer rooms, fast-access PCs, loaning devices, printing and copying service for one week in the following working day and report the case to related department;
  - 4.2.1 For student, the case will be forwarded to Student Affairs Office (SAO);
  - 4.2.2 For staff, the case will be forwarded to the related department and Human Resources Section of Office of Administration (ADMO-HRS).
- 4.3 Any user who was identified that he/she had subsequently violated any of the above stated usage rules, ICTO will suspend his/her privileged of using the following ICTO services: computer rooms, virtual computer room, personal multimedia computer rooms, fast-access PCs, loaning devices, printing and copying service for one month in the following working day and report the case to related department;
  - 4.3.1 For student, the case will be forwarded to Student Affairs Office (SAO);
  - 4.3.2 For staff, the case will be forwarded to the related department and Human Resources Section of Office of Administration (ADMO-HRS).

- 4.4 Any user who intentionally damaging the computing facilities, equipment or furniture in the facility room will be required to pay for the cost of repair or replacement.
- 4.5 Any user who commits serious offenses, such as stealing computer items, accessories or furniture; ICTO will report the case to the Security and Transport Section of Campus Management and Development Office (CMDO-STC) and the faculty or department concerned for further action.
- 4.6 During the period of privilege suspension if there is the need of using the computing services for academic or administrative purpose, user can request his/her academic unit or department to send a written request to ICTO to temporarily restore his/her privileges for accessing the services stated in 4.2 and 4.3. ICTO can consider the request but is under no obligation to restore the suspended privileges.

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# **Fees and Charges for 2025/2026 Newly Admitted Students**

## APPENDICES

# Tuition Fee 2025/2026

## Tuition Fees for Postgraduate Programmes

(All fees in MOP)

Programmes <sup>3</sup>	Programme Full Tuition Fees within Normative Study Period <sup>1</sup>		Continuation Fees per Semester <sup>2</sup>	
	Local Students <sup>4</sup>	Non-Local Students	Local Students <sup>4</sup>	Non-Local Students
<b>PhD Degree Programmes</b>	150,000	150,000	9,380	9,380
<b>Master's Degree Programmes</b>				
- Offered by the Faculty of Business Administration	97,800	204,000	12,230	25,500
- Offered by other academic units	97,800	174,000	12,230	21,750
<b>Postgraduate Certificate/Diploma Programmes</b>				
- Postgraduate Certificate in Education	20,600	41,300	5,150	10,330
- Introduction to Macau Law	30,600	61,400	3,830	7,680

1. Programme full tuition fees are charged in installments (semesters) during normative study period. Students who complete a programme, including those who complete a programme before the end of normative study period, are required to settle their programme full tuition fees, i.e., all installments of tuition fees. The following table shows tuition fees per installment:

Programmes <sup>3</sup>	Normative Study Period	No. of Installments	Tuition Fees per Installment	
			Local Students <sup>4</sup>	Non-Local Students
<b>PhD Degree Programmes</b>	4 years	8 installments	18,750	18,750
<b>Master's Degree Programmes</b>				
- Offered by the Faculty of Business Administration	2 years	4 installments	24,450	51,000
- Offered by other academic units	2 years	4 installments	24,450	43,500
- Offered by other academic units (3-year programmes)	3 years	6 installments	16,300	29,000
<b>Postgraduate Certificate/Diploma Programmes</b>				
- Postgraduate Certificate in Education	1 year	2 installments	10,300	20,650
- Introduction to Macau Law	2 years	4 installments	7,650	15,350

2. Continuation fees are charged to students who continue studies beyond normative study period.
3. Students who study in the following programmes are required to settle tuition fees according to the tuition fee tables announced on the websites of the respective academic units: the Doctor of Fine Arts programme, the Doctor of Design in Visual Communication Design programme, the Master of Fine Arts programme, the Doctor of Business Administration programme, the Executive Master of Business Administration programme, the Doctor of Education programme, the Doctor of Public Health programme, and the Doctor of Public Administration programme.
4. Local students refer to holders of Macau SAR resident identity cards.

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### Notes

- a) Students who are **admitted in Academic Year 2025/2026** should refer to the previous page for tuition fees.
- b) Students who **resume studies in Academic Year 2025/2026** and follow:
- i) Programme-based tuition fee schemes: please refer to the previous page for tuition fees.
  - ii) Credit-based tuition fee schemes: please refer to the following table. The minimum charge per semester is equivalent to tuition fees for 3 credits.

Programme <sup>#</sup>	Tuition Fees per Credit	
	Local Students*	Non-Local Students
<b>PhD Degree Programmes</b>	3,130	3,130
<b>Master's Degree Programmes</b>		
- Offered by the Faculty of Business Administration	4,080	8,500
- Offered by other academic units	4,080	7,250
<b>Postgraduate Certificate/Diploma Programmes</b>		
- Postgraduate Certificate in Education	1,720	3,440
- Introduction to Macau Law	1,280	2,560

<sup>#</sup> Not applicable to the Doctor of Fine Arts programme, the Doctor of Design in Visual Communication Design programme, the Master of Fine Arts programme, the Doctor of Business Administration programme, the Executive Master of Business Administration programme, the Doctor of Education programme, the Doctor of Public Health programme, and the Doctor of Public Administration programme.

\* Local students refer to holders of Macau SAR resident identity cards.

- c) Retake course fees are charged to students who retake course(s). Please refer to the table under note (b) for retake course fees per credit. If the course to be retaken is a non-credit bearing course, the retake course fee is equivalent to the fee for 1 credit.
- d) Students who join outgoing exchange or study abroad programmes are required to pay tuition fees to the University of Macau.

## Tuition Fees for the Doctor of Fine Arts Programme and the Doctor of Design in Visual Communication Design Programme

(All fees in MOP)

Fee	All Students
Programme Full Tuition Fees within Normative Study Period	280,000
Continuation Fees per Semester	15,000
Non-refundable Deposit	15,000
Retake Course Fee (per credit)	5,000

- A. The programme full tuition fees within normative study period are settled in 8 installments (8 semesters):

Tuition Fees per Installment	All Students
The 1 <sup>st</sup> installment to the 8 <sup>th</sup> installment	35,000

- B. Students who complete the programme, including those who complete before the end of the normative study period, are required to settle the programme full tuition fees. The normative study period of this programme is 4 years.
- C. Students who continue studies beyond the normative study period are required to pay the continuation fees.
- D. Students who accept their admission offers are required to pay the non-refundable deposit. The non-refundable deposit will offset part of the 1<sup>st</sup> installment of the programme full tuition fees.
- E. Students who retake course(s) are required to pay the retake course fee. If the course to be retaken is a non-credit bearing course, the retake course fee is equivalent to the fee for 1 credit.
- F. Students who join outgoing exchange or study abroad programmes are required to pay tuition fees to the University of Macau.

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## Tuition Fees for the Master of Fine Arts Programme

(All fees in MOP)

Fee	Local Students	Non-local Students
Programme Full Tuition Fees within Normative Study Period	122,400	217,500
Continuation Fees per Semester	12,230	21,750
Non-refundable Deposit	20,400	36,250
Retake Course Fee (per credit)	4,080	7,250

- A. The programme full tuition fees within normative study period are settled in 6 installments (6 semesters):

Tuition Fees per Installment	Local Students	Non-local Students
The 1 <sup>st</sup> installment to the 6 <sup>th</sup> installment	20,400	36,250

- B. Students who complete the programme, including those who complete before the end of the normative study period, are required to settle the programme full tuition fees. The normative study period of this programme is 3 years.
- C. Students who continue studies beyond the normative study period are required to pay the continuation fees.
- D. Students who accept their admission offers are required to pay the non-refundable deposit. The non-refundable deposit will be the 1<sup>st</sup> installment of the programme full tuition fees.
- E. Students who retake course(s) are required to pay the retake course fee. If the course to be retaken is a non-credit bearing course, the retake course fee is equivalent to the fee for 1 credit.
- F. Students who join outgoing exchange or study abroad programmes are required to pay tuition fees to the University of Macau.
- G. Local students refer to holders of Macao SAR resident identity cards.



## Tuition Fees for the Doctor of Business Administration Programme

### A. Programme Tuition Fee

(All fees in MOP)

Programme	All Students
Doctor of Business Administration	830,000

### B. Tuition Fee Summary

Item	Amount	Payment Date
Reservation Deposit	30,000	Upon acceptance of admission offer
1 <sup>st</sup> Installment	270,000	Before the class commencement of the 1 <sup>st</sup> semester of the 1 <sup>st</sup> year
2 <sup>nd</sup> Installment	300,000	Before the class commencement of the 1 <sup>st</sup> semester of the 2 <sup>nd</sup> year
3 <sup>rd</sup> Installment	230,000	Before the class commencement of the 1 <sup>st</sup> semester of the 3 <sup>rd</sup> year
Continuation Fee (per semester)	50,000	Before the class commencement of the semester starts
Retake/Extra Course Fee (per credit)	16,600	

#### Remarks:

1. The reservation deposit is non-refundable. This deposit will be offset against the students' first year tuition fee;
2. Continuation fee shall be paid by a student who needs to continue beyond normal duration of the programme, i.e. 3 years;
3. Additional fees shall be paid by a student who needs to retake course and/or taking extra course;
4. A student who completed the whole programme before the end of the normal duration of the programme must also settle the full amount of tuition fees of the programme.

### C. Residential Workshops

Expenses on residential workshops are excluded in the tuition fee. Students are responsible for the costs of travel, accommodation and subsistence incurred in attending the compulsory workshops in the curriculum.

D. Students who are admitted in or after academic year 2019/2020 should pay the tuition fees according to the above scheme.

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## Tuition Fees for the Executive Master of Business Administration Programme

### A. Programme Tuition Fee

(All fees in MOP)

Programme	All Students
Executive Master of Business Administration	550,000

### B. Tuition Fee Summary

Item	Amount	Payment Date
Reservation Deposit	20,000	Upon acceptance of admission offer
1 <sup>st</sup> Installment	310,000	Before the class commencement of the 1 <sup>st</sup> semester of the 1 <sup>st</sup> year
2 <sup>nd</sup> Installment	220,000	Before the class commencement of the 1 <sup>st</sup> semester of the 2 <sup>nd</sup> year
Continuation Fee (per semester)	27,500	Before the class commencement of the semester starts
Retake/Extra Course Fee (per credit)	15,000	

#### Remarks:

1. The reservation deposit is non-refundable. This deposit will be offset against the students' first year tuition fee;
2. Continuation fee shall be paid by a student who needs to continue beyond normal duration of the programme, i.e. 2 years;
3. Additional fees shall be paid by a student who needs to retake course and/or taking extra course;
4. A student who completed the whole programme before the end of the normal duration of the programme must also settle the full amount of tuition fees of the programme.

### C. Residential Workshops

Expenses on residential workshops are excluded in the tuition fee. Students are responsible for the costs of travel, accommodation and subsistence incurred in attending the compulsory workshops in the curriculum.

D. Students who are admitted in or after academic year 2020/2021 should pay the tuition fees according to the above scheme.

## Refund Policy for Programme Withdrawal (For DBA and EMBA Programmes)

### 1. Purpose

Students are admitted to the University with the understanding that they will remain until the end of the semester unless unforeseen circumstances necessitate their withdrawal, or unless they are discontinued studies. Students who are discontinued from the University forfeit all refunds of tuition and fees.

### 2. Policy Parameters and Conditions

- a. The completed (1) Application for Deferment of Study/Withdrawal Form, (2) Check-out Form, (3) Application Form for Tuition Fee Refund and (4) supporting document(s) must be submitted to the Postgraduate Office of the Faculty of Business Administration in order to officially withdraw from the programme.
- b. In the event of a prolonged illness, accident, or other circumstances making it impractical or impossible to complete the study, students must contact FBA Postgraduate Office as soon as possible.
- c. Refund will be credited to the student's bank account provided in the record of our University.
- d. Administrative fee of MOP500 will be charged for any successful refund application. The administrative fee of MOP500 will be deducted from the refund of tuition fee.
- e. Any application for Tuition Fee Refund is subject to the approval from the Programme Coordinator, the Dean of the Faculty of Business Administration and the Director of Finance Office.

### Refund Calculations

Date of Applications	Percentage of Tuition Refunded (Excluding non-refundable deposit)
Before class commencement	100 % installment refund
Class commencement – October 15	80 % installment refund
October 16 – November 30	60 % installment refund
December 01 – January 31	40 % installment refund
After January 31	No refund will be issued

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## Tuition Fees for the Doctor of Education Programme

(All fees in MOP)

<b>Fee / Deposit</b>	<b>All Students</b>
Programme Full Tuition Fee within Normative Study Period	240,000
Non-Refundable Deposit	15,000
Continuation Fee (per semester)	15,000
Retake Course Fee (per credit)	5,000

- A. The programme full tuition fee (in MOP) is to be settled in 6 installments (6 semesters).

<b>Installment</b>	<b>Amount</b>
1 <sup>st</sup> to 6 <sup>th</sup> Installment (per installment)	40,000

- B. Students who complete the whole programme before the end of the normative study period must also settle the programme full tuition fee. The normative study period of this programme is 3 years.
- C. Students who join an outgoing exchange programme/study abroad programme should pay the tuition fees of each of the outgoing semesters according to the tuition fee scheme of the University of Macau.
- D. Applicants are required to pay the non-refundable deposit when they accept their admission offers. After student registration, the deposit will offset part of the 1<sup>st</sup> installment of the programme tuition fee.
- E. The continuation fee shall be paid by a student who needs to continue beyond the normative study period.
- F. Students who retake courses shall pay the retake course fees according to the number of credits of the retake courses. For non-credit bearing course, the retake fee shall be 1 credit.

## Tuition Fees for the Doctor of Public Health Programme

(All Fees in MOP)

Fee	All Students
Programme Full Tuition Fees within Normative Study Period	240,000
Continuation Fees per Semester	15,000
Non-refundable Deposit	15,000
Retake Course Fee (per credit)	5,000

- A. The programme full tuition fees within normative study period are settled in 6 installments (i.e. 6 semesters):

Tuition Fees per Installment	All Students
The 1 <sup>st</sup> to the 6 <sup>th</sup> installment	40,000

- B. Students who complete the programme, including those who complete before the end of the normative study period, are required to settle the programme full tuition fees. The normative study period of this programme is 3 years.
- C. Students who continue studies beyond the normative study period are required to pay the continuation fees.
- D. Students who accept their admission offers are required to pay the non-refundable deposit. The non-refundable deposit will offset part of the 1<sup>st</sup> installment of the programme full tuition fees.
- E. Students who retake course(s) are required to pay the retake course fee. If the course to be retaken is a non-credit bearing course, the retake course fee is equivalent to the fee for 1 credit.
- F. Students who join outgoing exchange or study abroad programmes are required to pay tuition fees to the University of Macau.

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## Tuition Fees for the Doctor of Public Administration Programme

(All Fees in MOP)

<b>Fee / Deposit</b>	<b>All Students</b>
Programme Full Tuition Fee within Normative Study Period	240,000
Non-Refundable Deposit	15,000
Continuation Fee (per semester)	15,000
Retake Course Fee (per credit)	5,000

- A. The programme full tuition fee (in MOP) is to be settled in 6 installments (6 semesters).

<b>Installment</b>	<b>Amount</b>
1 <sup>st</sup> to 6 <sup>th</sup> Installment (per installment)	40,000

- B. Students who complete the whole programme before the end of the normative study period must also settle the programme full tuition fee. The normative study period of this programme is 3 years.
- C. Students who join an outgoing exchange programme/study abroad programme should pay the tuition fees of each of the outgoing semesters according to the tuition fee scheme of the University of Macau.
- D. Applicants are required to pay the non-refundable deposit when they accept their admission offers. After student registration, the deposit will offset part of the 1<sup>st</sup> installment of the programme tuition fee.
- E. The continuation fee shall be paid by a student who needs to continue beyond the normative study period.
- F. Students who retake courses shall pay the retake course fees according to the number of credits of the retake courses. For non-credit bearing course, the retake fee shall be 1 credit.

## Tuition Fee for Undergraduate Programmes

### A. Tuition fees

(All fees in MOP)

Programme Type	Student Type	Programme Full Tuition Fee within Normal Study Period <sup>#</sup>
4-year Bachelor's Degree Programmes	Local Students*	150,000
	Non-local Students	490,400
5-year Bachelor's Degree Programmes	Local Students*	187,500
	Non-local Students	613,000

<sup>#</sup> Tuition fee to be settled by 8 installments (8 semesters) for 4-year programme and by 10 installments (10 semesters) for 5-year programme with fee per installment as follows:

- Local students\*: MOP18,750
- Non-local students: MOP61,300

- B. Students who begin or resume their studies in academic year 2025/2026 have to pay tuition fees according to the above scheme. For resuming students who were admitted before academic year 2025/2026 and followed the credit-based tuition fee scheme, they shall pay their tuition fees on credit-basis with tuition fee per credit as stated in item D.
- C. Students who complete the whole programme before the end of the normal study period must also settle the full amount of tuition fee of the studied programme.
- D. Continuation fee: Students who are not able to complete the programme and continue beyond the normal study period should pay the continuation fee according to the number of credits to be taken as follows:

Student Type	Tuition Fee per Credit
Local Students*	1,150
Non-local Students	3,850

\* Local students refer to holders of Macao SAR resident identity cards.

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## Tuition Fee for Minor Programme

### A. Tuition fees

(All fees in MOP)

Student Type	Programme Full Tuition Fee <sup>#</sup>
Local Students*	20,940
Non-local Students	69,900

<sup>#</sup> Tuition fee to be settled by 6 installments (6 semesters), with fee per installment as follows:

- Local students\*: MOP3,490
- Non-local students: MOP11,650

- B. Students who begin or resume their Bachelor's Degree Programme in academic year 2025/2026 and enrol in the Minor Programme have to pay tuition fee for the programme according to the above scheme. For resuming students who were admitted before academic year 2025/2026 and followed the credit-based tuition fee scheme, they shall pay their tuition fee for the programme on credit-basis.
- C. In all circumstances, students must settle the full amount of tuition fee by the time of graduation of the Minor Programme.
- D. No tuition fee refund will be made to students who withdraw from the Minor Programme.

\* Local students refer to holders of Macao SAR resident identity cards.



## Tuition Fee for Honours College Certificate Programme

A. Tuition fees

(All fees in MOP)

Student Type	Programme Full Tuition Fee <sup>#</sup>
Local Students*	8,220
Non-local Students	27,180

<sup>#</sup> Tuition fee to be settled by 6 installments (6 semesters), with fee per installment as follows:

- Local students\*: MOP1,370
- Non-local students: MOP4,530

- B. Students who begin or resume their Bachelor's Degree Programme in academic year 2025/2026 and enrol in the Honours College Certificate Programme have to pay tuition fee for the programme according to the above scheme. For resuming students who were admitted before academic year 2025/2026 and followed the credit-based tuition fee scheme, they shall pay their tuition fee for the programme on credit-basis.
- C. In all circumstances, students must settle the full amount of tuition fee by the time of graduation of the Honours College Certificate Programme.
- D. No tuition fee refund will be made to students who withdraw from the Honours College Certificate Programme.

\* Local students refer to holders of Macao SAR resident identity cards.

## Fees and Other Charges

The information provided below is intended to provide a concise guide of the fees and charges related to attendance at University of Macau programmes. The University reserves the right to review and adjust the fees and charges regularly.

### Currency

All fees paid are only acceptable in Macao Patacas (MOP). Cheque payments in foreign currencies are only acceptable in Hong Kong Dollars. An additional charge of MOP50 will be levied for cheques drawn on banks out of Macao.

### Application Fees (Non-refundable)

Programmes	Student Type	Application Type	Amount (MOP)
Bachelor	Local & Foreign	Direct Admission & Transfer Admission	300
		Admission Examination	250
	Mainland Chinese	----	300
Postgraduate	Local & Foreign	----	200
	Mainland Chinese	----	250

### Non-refundable Deposits (To guarantee a place)

Programmes	Student Type	Amount (MOP)
Postgraduate Certificate	Newly admitted students	3,000
PhD Degree	Newly admitted students	5,000

### Tuition Fees for Academic Year 2025/2026

For undergraduate students, please refer to the Registry (REG) website of the link below:  
<https://reg.um.edu.mo/current-students/enrolment-and-examinations/tuition-and-other-fees-and-charges/>

For postgraduate students, please refer to the Graduate School (GRS) website of the link below:  
<https://grs.um.edu.mo/index.php/current-students/tuition-fee/>

### Security Deposit

All newly registered students are required to pay the security deposit of MOP1,000 during the study period. The deposit is refundable to the students upon graduation or withdrawal and settlement of all outstanding liability due to the University. Students can provide the bank information in Student Information System Web Services (ISW) for refund of the security deposit.

## Residential College Boarding Fees, Postgraduate House Residence Fees and Related Fees

Please refer to the Student Resources and Services (SRS) and the Residential Colleges (RC) website of the links below:

- SRS website: <https://srs.sao.um.edu.mo/accommodation-news-and-updates/>
- RC website: <https://rc.um.edu.mo/new-student/>

## Student Locker Fee

Please refer to the Student Resources and Services (SRS) website of the link below:

<https://srs.sao.um.edu.mo/locker-rental/>

## Administrative Charges

Please refer to the Finance Office (FO) website of the link below:

[https://fo.um.edu.mo/student/fees\\_and\\_charges/](https://fo.um.edu.mo/student/fees_and_charges/)

## Payment by Installments

To help the students who are in financial difficulties in settling the outstanding fees, he/she may apply to pay by installments to the Dean of Students. In order to do so, the student should submit the required application form and relevant documents to Student Affairs Office within application period.

For details, please visit: <https://sds.sao.um.edu.mo/whole-person-nurturing/financial-aid/>

## Other Fees and Charges

Description	Amount (MOP)	Remarks
1. Administrative charge for special handling of tuition fees	200	--
2. Returned cheque charges	55	For each dishonoured cheque drawn on a Macao bank
	100	For each dishonoured cheque drawn on a bank outside Macao
3. Declaration fee of tuition fee payment	25	--
4. Late registration fee	330	--
5. Re-admission fee for inactive student	3,000 per inactive semester	Maximum inactive period of a student will be 2 semesters cumulatively
6. Transcript fee	55 (1 <sup>st</sup> copy) 50 (2 <sup>nd</sup> copy)	Including postage charges
7. Testimonial fee		The 2 <sup>nd</sup> copy onwards must be the same as the 1 <sup>st</sup> copy. Testimonials for renewal of the "Special Authorization to Stay" for Mainland China students are free of charge.
8. Course description fee		Per academic year, per language and per major
9. Certificate recognition fee	55	Only for UM programmes recognized by the Ministry of Education of Portugal

Description	Amount (MOP)	Remarks
10. English translation of diploma fee		Issue once only
11. Certifying certificate/transcript fee	15 (1 <sup>st</sup> copy) 10 (2 <sup>nd</sup> copy)	--
12. Supplementary/Re-sit examination fees		--
12.1 Bachelor's Degree Programme	165	--
12.2 Postgraduate Programmes	220	--
13. Late withdrawal/Check-out fee	200	--
14. UM campus card replacement fee	100	--

### Library Fees

Please refer to the Library website of the link below:

[https://library.um.edu.mo/lib\\_info/lib\\_regulations\\_en](https://library.um.edu.mo/lib_info/lib_regulations_en)

### Graduation Gown

Please refer to the Registry website of the link below:

<https://reg.um.edu.mo/graduation/graduation-gown/gowns-rental-and-making/>

### Parking Charges

Please refer to the Security and Facilities Service Section (SFS) website of the link below:

<https://sfs.cmdo.um.edu.mo/our-services/car-park-management/>

### Sports Complex Venues Rental Fees and Charges

Please refer to the Office of Sports Affairs (OSA) website of the link below:

<https://facility.osa.um.edu.mo/booking/>

### Medical Insurance

Please refer to the Student Affairs Office (SAO) website of the link below:

<https://srs.sao.um.edu.mo/medical-insurance/>

# **Rules Governing the Use of UM Campus Card**

## Rules Governing the Use of UM Campus Card (For Students)

(Approved by the Rector on 31 July 2022)

### A. INTRODUCTION

A multi-purpose UM Campus Card is issued for all members of the University (academic and administrative staff as well as students) for identification, facility/physical access control and information system access, etc.

### B. FUNCTIONS OFFERED BY THE CARD

The UM Campus Card serves as:

- A traditional identification card;
- A library card;
- A facility access card to various facilities on campus, including the computer rooms, laboratories, offices, etc.

### C. ACCESS CONTROL TO UNIVERSITY'S FACILITIES

With a valid UM Campus Card, a student is able to access all ICTO computer rooms. However, access to other facilities, such as individual faculty laboratories, has to be approved in advance by the relevant academic units. For further information, please contact ICTO Help Desk.

### D. CARD REPLACEMENT FEE

Students do NOT need to pay for the first and all subsequent renewal cards issued by the University. However, **students have to pay MOP100 for replacement due to loss, damage\*, and theft.**

\* If a damaged campus card does not have any physical damage on it (e.g. scratch and bent mark), students are not obliged to pay the replacement fee of MOP100. However, the fee is applicable for the replacement of all other campus cards with physical damages.

### E. REPORTING THE LOSS OR THEFT OF THE CARD

If your UM Campus Card is lost or stolen, please approach the Registry or Graduate School as soon as possible, to both report the loss/theft and apply for the issuance of a replacement card. Failure to immediately report the loss or theft of one's UM Campus Card to the Registry or Graduate School, will render the original holder liable to any and all negative consequences arising as a result of the loss/theft.

### F. NOTES FOR USING THE CARD

1. All UM Campus Cards remain the property of the University.
2. Use of the UM Campus Card constitutes acceptance of all of the terms and conditions stated in the document "Rules Governing the Use of UM Campus Card".
3. UM Campus Card is NOT transferable.
4. The functions of your card in campus will be invalidated upon termination of the relationship with the University.
5. Do not scratch or fold the card.
6. The card chip must be stored under normal room temperatures and in a clean environment.
7. Students must not tamper with the UM Campus Card (including all information printed or stored on the card) in any way. Any unauthorized attempts for reading/writing the data stored on your Campus Card may be a criminal offence.

# Academic Prizes

## Academic Prizes

Academic Prizes are awarded to the most outstanding potential graduates of Bachelor's and graduates of Master's and Doctoral Programmes.

Potential graduates: The selection will be based on the academic result of 3.5 years (4-year bachelor's programmes) or 4.5 years (5-year bachelor's programmes) plus completion of last semester's study. The recipients' total enrolled credits should have met the required no. of graduation credits at the time of selection.

### Henry Fok Foundation Academic Prize

#### 霍英東基金會學術獎項

Eligibility	:	Bachelor's degree potential graduates
Criteria	:	Academic performance
Amount	:	Five prizes, MOP10,000 each

### Bank of China Academic Prize

#### 中國銀行學術獎項

Eligibility	:	Bachelor's degree potential graduates from Faculty of Business Administration, Faculty of Law, Faculty of Social Sciences majoring in Economics, Faculty of Arts and Humanities majoring in Portuguese Studies
Criteria	:	Academic performance
Amount	:	1. Four prizes of MOP10,000 each for students from Faculty of Business Administration 2. Two prizes of MOP10,000 each for students from Faculty of Social Sciences majoring in Economics 3. One prize of MOP10,000 for student from Faculty of Arts and Humanities majoring in Portuguese Studies 4. One prize of MOP10,000 for student from Faculty of Law

### Luso International Bank Academic Prize

#### 澳門國際銀行學術獎項

Eligibility	:	Bachelor's degree potential graduates from Faculty of Business Administration
Criteria	:	Academic performance
Amount	:	Five prizes, MOP10,000 each

### ICBC Macau Academic Prize

#### 工銀澳門優才學術獎項

Eligibility	:	Local bachelor's degree potential graduates majoring in Business Economics, Financial Controllershship, Accounting or Finance
Criteria	:	Academic performance
Amount	:	Five prizes, MOP10,000 each



### MECOM Power - Hung Yip Group Academic Prize

#### 澳能建設—鴻業集團學術獎項

Eligibility	:	Local bachelor's degree potential graduates majoring in Civil Engineering or Electromechanical Engineering
Criteria	:	Academic performance
Amount	:	Four Prizes, MOP10,000 each 1. Two prizes of MOP10,000 each for students majoring in Civil Engineering 2. Two prizes of MOP10,000 each for students majoring in Electromechanical Engineering

### Banco Nacional Ultramarino (BNU) Academic Prize

#### 大西洋銀行學術獎項

Eligibility	:	Bachelor degree's potential graduates majoring in Finance of Faculty of Business Administration and Law in Portuguese Language of Faculty of Law
Criteria	:	Academic performance
Amount	:	Three prizes for students majoring in Finance 1. One prize of MOP15,000 2. One prize of MOP10,000 3. One prize of MOP5,000

One prize of MOP10,000 for student majoring in Law in Portuguese Language

### Akrostar Academic Prize

#### 芯耀輝學術獎項

Eligibility	:	Bachelor's degree potential graduates majoring in Electrical and Computer Engineering, local students preferred
Criteria	:	Academic performance & R&D result in microelectronics circuit design
Amount	:	Four prizes, MOP5,000 each

### Choi Kai Yau Academic Prize

#### 蔡繼有學術獎項

Eligibility	:	Bachelor's degree potential graduates
Criteria	:	Academic performance
Amount	:	Six prizes, MOP5,000 each

### Lou Tou Vo Mathematics Academic Prize

#### 盧道和數學學術獎項

Eligibility	:	Bachelor's degree potential graduates from Department of Mathematics of Faculty of Science and Technology
Criteria	:	Academic performance
Amount	:	Two prizes, MOP5,000 each

### Jorge Alvares Foundation Academic Prize

#### 歐維治基金會學術獎項

Eligibility	:	Bachelor's degree potential graduates
Criteria	:	Academic performance
Amount	:	1. One prize of EUR2,000 for student from Faculty of Arts and Humanities, Faculty of Business Administration, Faculty of Education, Faculty of Health Sciences, Faculty of Science and Technology or Faculty of Social Sciences 2. One prize of EUR1,500 for student from Faculty of Law

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**WICH Law Firm and Private Notary Academic Prize****永俊豪律師事務所暨私人公證員學術獎項**

Eligibility	:	Bachelor's degree potential graduates majoring in Law in Chinese language (Daytime/Evening) or majoring in Law (Conducted in Chinese and Portuguese)
Criteria	:	Academic performance
Amount	:	1. One prize of MOP10,000 for student majoring in Law in Chinese language 2. One prize of MOP10,000 for student majoring in Law (Conducted in Chinese and Portuguese)

**X Fintech Asia Academic Prize****亞洲金融科技有限公司學術獎項**

Eligibility	:	Local bachelor's degree potential graduates majoring in Computer Science
Criteria	:	Academic performance
Amount	:	Two prizes, MOP5,000 each

**Macau Civil Engineering Laboratory (LECM) Academic Prize****土木工程實驗室學術獎項**

Eligibility	:	Bachelor's degree potential graduates majoring in Civil Engineering
Criteria	:	Academic performance
Amount	:	One prize of MOP10,000

**ERS Academic Prize****易研方案學術獎項**

Eligibility	:	Bachelor's degree potential graduates in the Department of Communication and Department of Computer and Information Science
Criteria	:	Academic performance
Amount	:	Two prizes, MOP5,000 each

**MIL Law Office Academic Prize****莫綺玲律師事務所學術獎項**

Eligibility	:	Best bachelor's degree potential graduates majoring in Law in Portuguese language
Criteria	:	Academic performance (with minimum scale 15)
Amount	:	One prize of MOP10,000

# **Scholarships and Studentships**

## Undergraduate Scholarships

### University of Macau Grand Lotus Scholarship

#### 澳門大學大蓮花獎學金

- Eligibility : Applicants of bachelor's degree programmes admitted through the Principals' Recommended Admission Scheme (PRA)
- Criteria : Students who have outstanding academic performance, talents or achievements
- Amount : Full waiver of tuition fee and RC fee; scholarship of MOP30,000 per year; eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### University of Macau Golden Lotus Scholarship

#### 澳門大學金蓮花獎學金

- Eligibility : Applicants of bachelor's degree programmes admitted through the Principals' Recommended Admission Scheme (PRA)
- Criteria : Students who have outstanding academic performance, talents or achievements
- Amount : Full waiver of tuition fee; eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### University of Macau Silver Lotus Scholarship

#### 澳門大學銀蓮花獎學金

- Eligibility : Applicants of bachelor's degree programmes admitted through the Principals' Recommended Admission Scheme (PRA)
- Criteria : Students who have outstanding academic performance, talents or achievements
- Amount : Half waiver of tuition fee
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### University of Macau First Year Scholarship

#### 澳門大學首年級獎學金

- Eligibility : Applicants of bachelor's degree programmes admitted through the Principals' Recommended Admission Scheme (PRA)
- Criteria : Other students admitted through the PRA Scheme
- Amount : One-off scholarship of MOP5,000 tuition fee reduction in the first year of study (no continuation)

### University of Macau Golden Lotus Scholarship for Admission Examination

#### 澳門大學入學考試金蓮花獎學金

- Eligibility : Admission examination candidates
- Criteria : Admission examination candidates with outstanding examination result
- Amount : Full waiver of tuition fee; eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### University of Macau Full Scholarship for Undergraduate Students

#### 澳門大學學士學生全免獎學金

Eligibility	: Bachelor's degree students from Mainland China, Hong Kong and Taiwan region
Criteria	: Students who have outstanding academic performance and assessment evaluation
Amount	: Full waiver of tuition fee and RC fee; eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview
Continuation	: Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### International Student Scholarship (Bachelor Students) – Full Scholarship

#### 國際學生獎學金（學士學位）– 全免獎學金

Eligibility	: International bachelor's degree students, excluding Mainland China, Hong Kong and Taiwan region
Criteria	: Students who have outstanding academic performance and assessment evaluation
Amount	: Full waiver of tuition fee and RC fee
Continuation	: Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### International Student Scholarship (Bachelor Students) – Half Scholarship

#### 國際學生獎學金（學士學位）– 半免獎學金

Eligibility	: International bachelor's degree students, excluding Mainland China, Hong Kong and Taiwan region
Criteria	: Students who have outstanding academic performance and assessment evaluation
Amount	: Half waiver of tuition fee and RC fee
Continuation	: Students can continue their scholarship during the normal study period upon fulfilment of the particular academic and RC requirements

### University of Macau Golden Lotus Scholarship for Outstanding Student – Athletes

#### 澳門大學傑出運動員金蓮花獎學金

Eligibility	: Local applicants of bachelor's degree programmes admitted through the Outstanding Student-Athletes Admission Scheme
Criteria	: Students who meet the academic requirements, with excellent sports performance and achievements
Amount	: Full waiver of tuition fee
Continuation	: Students can continue their scholarship during the normal study period upon fulfilment of the particular academic performances and sports achievements, achieving the required attendance rate of related UM Sports Team regular training and participating in competitions; having positive attitude and active participation in all sports team related events

### University of Macau Silver Lotus Scholarship for Outstanding Student – Athletes

#### 澳門大學傑出運動員銀蓮花獎學金

Eligibility	: Local applicants of bachelor's degree programmes admitted through the Outstanding Student-Athletes Admission Scheme
Criteria	: Students who meet the academic requirements, with excellent sports performance and achievements
Amount	: Half waiver of tuition fee
Continuation	: Students can continue their scholarship during the normal study period upon fulfilment of the particular academic performances and sports achievements, achieving the required attendance rate of related UM Sports Team regular training and participating in competitions; having positive attitude and active participation in all sports team related events

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**University of Macau First Year Scholarship for Outstanding Student – Athletes****澳門大學傑出運動員首年級獎學金**

- Eligibility : Local applicants of bachelor's degree programmes admitted through the Outstanding Student-Athletes Admission Scheme
- Criteria : Students who meet the academic requirements, with excellent sports performance and achievements
- Amount : One-off scholarship of MOP5,000 tuition fee reduction in the first year of study (no continuation)

**University of Macau Scholarship with Exemption of Joint Admission Examination for Outstanding Student – Athletes****澳門大學傑出運動員豁免四校聯考獎學金**

- Eligibility : Local applicants of bachelor's degree programmes admitted through the Outstanding Student-Athletes Admission Scheme
- Criteria : Students who meet the academic requirements, with excellent sports performance and achievements
- Amount : Admitted without scholarship (exemption of Joint Admission Examination)

**University of Macau Outstanding Student – Athletes Admission Scheme****澳門大學傑出運動員入學計劃**

- Eligibility : Non-local applicants of bachelor's degree programmes admitted through the Outstanding Student-Athletes Admission Scheme
- Criteria : Students who meet the academic requirements, with excellent sports performance and achievements
- Amount : Full or half waiver of tuition fee and RC accommodation fee
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic performances and sports achievements, achieving the required attendance rate of related UM Sports Team regular training and participating in competitions; having positive attitude and active participation in all sports team related events

**Macao Foundation Scholarship for Students from Lusophone Countries/Regions****澳門基金會葡語地區學生獎學金**

- Eligibility : Bachelor's degree students from Lusophone countries/regions
- Criteria : Recommendation by Macao Foundation
- Amount : Full waiver of tuition fee, RC fee and living subsidy of MOP3,600 per month
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic requirements

**Macao Foundation Scholarship for Children of Workers in the Space Industry****澳門基金會航天工作者子女獎學金**

- Eligibility : Bachelor's degree students whose parents are working in the space industry
- Criteria : Recommendation by Macao Foundation
- Amount : Full waiver of tuition fee, RC fee and living subsidy of MOP3,600 per month
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the particular academic requirements

**UMDF Scholarship – University of Macau Scholarship for Science, Technology, Engineering and Mathematics (STEM) Programmes**

**澳門大學發展基金會獎學金 – 澳門大學理工科課程獎學金**

There are two types of scholarships offered to bachelor's degree programmes:

**1. Type A**

- Eligibility : Local students of bachelor's degree programmes in the selected STEM disciplines
- Criteria : Year 2 students with outstanding academic performance of the 1<sup>st</sup> academic year. The selection criteria will be determined by the academic unit concerned
- Amount : One-off scholarship in the 2nd year of study. The amount will be determined by the academic unit concerned

**2. Type B**

- Eligibility : Local students of bachelor's degree programmes in the selected STEM disciplines
- Criteria : Year 2 to 4 students who participate in final year/graduation/research project or undertake an internship. The selection criteria will be determined by the academic unit concerned
- Amount : Scholarship will be granted by cash allowance. The amount will be determined by the academic unit concerned

**UMDF Fellowship – FED Fellowship for Financial Difficulties**

**澳門大學發展基金會助學金 – 教育學院經濟困難助學金**

- Eligibility : FED bachelor's degree local students
- Criteria : 1. Family economic situation  
2. Applicant's self-statement
- Amount : Eight fellowships, MOP20,000 each

**UMDF Scholarship – FED Scholarship for Outstanding Student Teacher**

**澳門大學發展基金會獎學金 – 教育學院優秀實習教師獎學金**

- Eligibility : 1. FED bachelor's degree students  
2. Year 4 students
- Criteria : 1. Reference letter from TP supervisors and TP school mentors  
2. TP performance  
3. Preparation of lesson plans  
4. Applicant's self-statement
- Amount : Three scholarships, MOP10,000 each

**UMDF Scholarship – FED Scholarship for Outstanding Student Teacher with Integration of AI/STEAM Approach**

**澳門大學發展基金會獎學金 – 教育學院優秀實習教師人工智能/綜合應用技能教學獎學金**

- Eligibility : 1. FED bachelor's degree students  
2. Year 4 students
- Criteria : 1. Reference letter from TP supervisors and TP school mentors on the integration of AI/STEM/STEAM approach  
2. TP performance  
3. Preparation of lesson plans which demonstrates the integration of AI/STEAM approach  
4. Applicant's self-statement on the integration of AI/STEAM approach
- Amount : One scholarship, MOP6,000

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**UMDF Scholarship – FED Scholarship for Whole Person Development****澳門大學發展基金會獎學金 – 教育學院全人發展獎學金**

- Eligibility : 1. FED bachelor's degree students  
2. Year 3 and Year 4 students
- Criteria : 1. Performance in the Whole Person Development Award Programme in the past 3 years (academic-related activities will be given higher priority)  
2. Winners of competitions representing FED, UM, Macao or China in the past three years  
3. Applicant with CGPA  $\geq 3.0$  has higher priority  
4. Applicant's self-statement
- Amount : Six scholarships, MOP10,000 each

**UMDF Scholarship – FED Scholarship for Outstanding Service****澳門大學發展基金會獎學金 – 教育學院優秀服務獎學金**

- Eligibility : FED bachelor's degree students
- Criteria : 1. Amount of services provided during the academic year  
2. Role in the related services  
3. Impact of the related services  
4. Applicant's self-statement
- Amount : Three scholarships, MOP10,000 each

**Macao Foundation – Macau Higher Education Institutions Scholarship for Outstanding Students****澳門基金會澳門高等院校優秀學生獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : MOP10,000 to MOP30,000 each, quota to be confirmed by donor

**Henry Fok Foundation Scholarship****霍英東基金會獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : MOP10,000 for every 200 students (5 quotas for academic prize)

**Bank of China Scholarship****中國銀行獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Twelve scholarships, MOP10,000 each  
1. Six scholarships for students from Faculty of Business Administration  
2. Two scholarships for students majoring in Economics of Faculty of Social Sciences  
3. Two scholarships for students majoring in Portuguese Studies of Faculty of Arts and Humanities  
4. Two scholarships for students from Faculty of Law

**Sands China Ltd. Scholarship and Fellowship****金沙中國有限公司獎學金及助學金**

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance for scholarship and financial situation for fellowship
- Amount : Total thirty quota of MOP10,000 each for scholarships and fellowships



### Luso International Bank Scholarship

#### 澳門國際銀行獎學金

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Four scholarships, MOP10,000 each
1. Two scholarships for students from Faculty of Business Administration
  2. Two scholarships for students majoring in Economics of Faculty of Social Sciences

### Tin Ka Ping Scholarship

#### 田家炳獎學金

- Eligibility : 1. Bachelor's degree students from Faculty of Education  
2. Macao, Mainland China, Hong Kong and Taiwan residents
- Criteria : 1. Academic performance  
2. Financial Difficulties  
3. Preference will be given to ethnic minorities  
4. Participated actively in community services
- Amount : Ten scholarships, HKD20,000 each

### Nam Kwong Education Scholarship

#### 南光教育獎學金

- Eligibility : Bachelor's degree students
- Criteria : Decided by UM and Nam Kwong Group
- Amount : MOP200,000 each year

### ICBC Macau Scholarship

#### 工銀澳門優才獎學金

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Fifteen scholarships, MOP10,000 each
1. Five scholarships for local students majoring in Business Economics, Financial Controllership, Accounting, Finance, and Business Intelligence and Data Analysis of Faculty of Business Administration, with one quota for each major.
  2. Seven scholarships for local students from other faculties
  3. Three scholarships for Mainland China students from other faculties

### Galaxy Entertainment Group Scholarship

#### 銀河娛樂集團獎學金

- Eligibility : Bachelor's degree local students majoring in International Integrated Resort Management. Students from the Convention and Hospitality Management specialization will be given priority
- Criteria : Academic performance
- Amount : Ten scholarships, MOP10,000 each

### MECOM Power – Hung Yip Group Scholarship

#### 澳能建設 – 鴻業集團獎學金

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance
- Amount : 1. Three scholarships of MOP10,000 each for students majoring in Civil Engineering  
2. Three scholarships of MOP10,000 each for students majoring in Electromechanical Engineering

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### **MGM Elite Scholarship**

#### **美高梅展才獎學金**

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance
- Amount : Ten scholarships, MOP10,000 each
1. Four scholarships for students majoring in International Integrated Resort Management
  2. One scholarship for student majoring in Accounting
  3. One scholarship for student majoring in Business Intelligence and Data Analytics
  4. Two scholarships for students majoring in Electrical and Computer Engineering
  5. Two scholarships for students majoring in Computer Science

### **SJM Scholarship**

#### **澳娛綜合獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Ten scholarships, MOP10,000 each

### **Tai Fung Bank Scholarship**

#### **大豐銀行獎學金**

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance
- Amount : 1. One scholarship of MOP20,000 and three scholarships of MOP10,000 each for students from Faculty of Business Administration (not include students majoring in International Integrated Resort Management)
2. One scholarship of MOP20,000 and three scholarships of MOP10,000 each for students from Faculty of Science and Technology

### **Wynn Macau Scholarship**

#### **澳門永利獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Five scholarships, MOP10,000 each
1. Two scholarships for students majoring in International Integrated Resort Management
  2. One scholarship for student majoring in Finance
  3. One scholarship for student majoring in Management
  4. One scholarship for student majoring in Marketing

### **BNU UM Affinity Card Scholarship**

#### **大西洋銀行澳門大學信用卡獎學金**

- Eligibility : Bachelor's degree students majoring in Portuguese Studies
- Criteria : Academic performance
- Amount : Two scholarships, MOP10,000 each

### **Sir Run Run Shaw Scholarship**

#### **邵逸夫獎學金**

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Eleven scholarships, MOP8,000 each

### Lisboa Holdings Scholarship

#### 葡京集團獎學金

Eligibility	: Bachelor's degree students
Criteria	: Academic performance
Amount	: Three scholarships, MOP10,000 each

### AOMI Scholarship

#### 澳覓 APP 獎學金

Eligibility	: Bachelor's degree students in their third year of study, majoring in Human Resource Management, Global Business Management and Marketing
Criteria	: Academic performance
Amount	: Three scholarships, MOP10,000 each

### Choi Kai Yau Scholarship

#### 蔡繼有獎學金

Eligibility	: Bachelor's degree students
Criteria	: Academic performance
Amount	: Two scholarships, MOP10,000 each

### CTM Scholarship

#### 澳門電訊獎學金

Eligibility	: Bachelor's degree local students from Faculty of Science and Technology
Criteria	: Academic performance
Amount	: Five scholarships, MOP10,000 each

### Macau International Airport Company Limited Scholarship

#### 澳門國際機場專營股份有限公司獎學金

Eligibility	: Bachelor's degree students
Criteria	: Academic performance
Amount	: Five scholarships, MOP10,000 each 1. One scholarship for student majoring in Finance 2. One scholarship for student majoring in Marketing 3. One scholarship for student majoring in Accounting 4. One scholarship for student majoring in Management 5. One scholarship for student majoring in Business Intelligence and Data Analytics

### Lou Tou Vo Mathematics Scholarship

#### 盧道和數學獎學金

Eligibility	: Bachelor's degree students majoring in Mathematics
Criteria	: Academic Performance
Amount	: 1. Grand Award: one scholarship of MOP10,000 for student with best academic performance 2. 1st Award: six scholarships, MOP5,000 each for students with good academic performance (two quotas for students from each year of study)

### Victormap Group Scholarship

#### 飛萬里集團獎學金

Eligibility	: Bachelor's degree students majoring in International Integrated Resort Management
Criteria	: Academic Performance
Amount	: Two scholarships, MOP10,000 each

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### **Frank Wong Scholarship**

#### **黃正義獎學金**

- Eligibility : Bachelor's degree students from Faculty of Science and Technology, local students preferred
- Criteria : 1. Financial difficulties  
2. If there are insufficient applications for the scholarship with the above criteria, the remaining quota will be awarded as scholarships for undergraduate students with academic performance
- Amount : Five scholarships, MOP10,000 each

### **Fundação Wong Ieng Kuan Scholarship**

#### **黃營均基金會獎學金**

- Eligibility : Bachelor's degree students from Faculty of Arts and Humanities and Faculty of Social Sciences
- Criteria : Academic performance
- Amount : Five scholarships, MOP10,000 each  
1. Two scholarships for students from Faculty of Arts and Humanities  
2. Three scholarships for students from Faculty of Social Sciences

### **Prudential Scholarship**

#### **保誠保險獎學金**

- Eligibility : Bachelor's degree local students majoring in Finance
- Criteria : Academic performance
- Amount : Five scholarships, MOP10,000 each

### **Jorge Alvares Foundation Scholarship**

#### **歐維治基金會獎學金**

- Eligibility : Bachelor's degree students majoring in Portuguese Studies
- Criteria : Student from the Department of Portuguese (DP) of Faculty of Arts and Humanities for his/her study in Portugal according to a plan recommended by DP
- Amount : One scholarship of EUR1,500

### **CEM Scholarship**

#### **澳門電力股份有限公司獎學金**

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance
- Amount : Four scholarships, MOP10,000 each  
1. Two scholarships for students majoring in Electrical and Computer Engineering  
2. Two scholarships for students majoring in Electromechanical Engineering

### **L'Arc Macau Talent Recognition Programme**

#### **澳門凱旋門菁英獎學金**

- Eligibility : Bachelor's degree local students in their third year of study
- Criteria : 1. Academic performance  
2. Participate actively in extra-curricular activities  
3. Participate actively in exchange programmes
- Amount : Three scholarships, MOP10,000 each  
1. One scholarship for student majoring in International Integrated Resort Management  
2. Two scholarships for students majoring in Accounting or Human Resources Management of Faculty of Business Administration, Communication of Faculty of Social Sciences, and Civil Engineering, Computer Science, Electromechanical Engineering or Electrical and Computer Engineering of Faculty of Science and Technology

### ASHRAE Macao Chapter Scholarship

#### ASHRAE 澳門分會 - 供暖製冷及空調工程師學會獎學金

##### 1. Bachelor's degree local students

- Eligibility : Bachelor's degree local students
- Criteria : 1. Winning in professional competitions  
2. Academic performance  
3. Participation in community services  
4. Participation in research project of related fields  
5. Participation in activities held by ASHRAE Macao Chapter  
6. Selected by the donor
- Amount : Four scholarships, MOP5,000 each

##### 2. Students from Cheng Yu Tung College, majoring in Electromechanical Engineering are preferred

- Eligibility : Students from Cheng Yu Tung College, majoring in Electromechanical Engineering are preferred
- Criteria : 1. Winning in professional competitions  
2. Academic performance  
3. Participation in community services  
4. Participation in research project of related fields  
5. Participation in activities held by ASHRAE Macao Chapter  
6. Selected by Cheng Yu Tung College
- Amount : Five scholarships, MOP2,000 each

### Banco Comercial de Macau (BCM) Scholarship

#### 澳門商業銀行獎學金

- Eligibility : Bachelor's degree local students majoring in Business Economics, Financial Controllershship, Accounting, Finance, Computer Science or Law (Day-time programme taught in Chinese) or Law (Day-time programme taught in Chinese and Portuguese)
- Criteria : 1. Academic performance  
2. Participate actively in extra-curricular activities  
3. Selected by donor
- Amount : Three scholarships, MOP10,000 each

### Manulife Scholarship

#### 宏利獎學金

- Eligibility : Bachelor's degree local students from Faculty of Business Administration
- Criteria : Academic performance
- Amount : Three scholarships, MOP10,000 each

### Wu Zhiwei Group Scholarship

#### 伍志偉集團獎學金

- Eligibility : Bachelor's degree students majoring in Portuguese Studies and from the Honours College
- Criteria : Academic performance
- Amount : Two scholarships, MOP10,000 each

### AAAUM Scholarship

#### 澳門大學校友會獎學金

- Eligibility : Bachelor's degree students
- Criteria : Academic performance
- Amount : Three scholarships, MOP5,000 each

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**University of Macau Alumni Association Mrs. Kot Ng Wai Lin Scholarship****澳門大學校友會葛吳慧蓮女士獎學金**

- Eligibility : Bachelor's degree students majoring in Government and Public Administration, local students preferred
- Criteria : Academic performance
- Amount : Three scholarships, MOP6,000 each

**MdM Excellence Scholarship****MdME 卓越獎學金**

- Eligibility : Bachelor's degree students in fourth year of study, majoring in Law (Day-time programme taught in Chinese and Portuguese)
- Criteria : 1. Academic performance (with minimum scale average 15)  
2. Selected by donor
- Amount : One scholarship of MOP15,000 and one scholarship of MOP10,000

**Rohde & Schwarz Wireless Communications Scholarship****羅德與施瓦茨無線通訊獎學金**

- Eligibility : Bachelor's degree local students majoring in Electrical and Computer Engineering
- Criteria : Academic performance
- Amount : Two scholarships, HKD10,000 each

**The Golden Burger (Macau) Charity Association Scholarship and Fellowship****澳門金漢堡慈善會獎學金及助學金**

- Eligibility : Bachelor's degree local student
- Criteria : 1. Scholarship: Academic performance and participation in community services  
2. Fellowship: Financial situation and participation in community services  
3. Selected by donor
- Amount : One scholarship of MOP10,000 and one fellowship of MOP10,000

**Macao Water Scholarship****澳門自來水有限公司獎學金**

- Eligibility : Bachelor's degree students majoring in Civil Engineering and Electromechanical Engineering
- Criteria : Academic performance
- Amount : Two scholarships, MOP10,000 each

**Nuno Simões & Associados Scholarship****施展鵬律師事務所獎學金**

- Eligibility : Bachelor's degree students from Faculty of Law (Day-time programme)
- Criteria : Academic performance
- Amount : Four scholarships, MOP5,000 each, one scholarship each for Year 1 to Year 4

**Wong Seng Hong Scholarship****黃昇雄獎學金**

- Eligibility : Bachelor's degree local students
- Criteria : Academic performance
- Amount : Two scholarships, MOP10,000 each

### **X Fintech Asia – AI & Data Scholarship**

#### **亞洲金融科技有限公司 – AI & Data 獎學金**

Eligibility	: Bachelor's degree local students in second year of study, majoring in Business Intelligence and Data Analytics
Criteria	: Academic performance
Amount	: Two scholarships, MOP5,000 each

### **Alumni Association of University of Macau Students' Union Scholarship for Best Student Leaders**

#### **澳門大學學生會校友會傑出學生領袖獎學金**

Eligibility	: Leaders and members of UM Students' Union (UMSU) and leaders of its sub-organizations, at least one quota for local student
Criteria	: <ol style="list-style-type: none"> <li>1. Contributions made to the University and UM students</li> <li>2. Served in UMSU or sub-organizations</li> <li>3. Contributions made for the development of the student organization</li> <li>4. GPA 2.3 or above</li> </ol>
Amount	: Two scholarships, MOP5,000 each

### **Mak Heng Ip Law Firm Scholarship**

#### **麥興業大律師樓獎學金**

Eligibility	: Bachelor's degree students from Faculty of Law
Criteria	: Academic performance
Amount	: One scholarship of MOP10,000

### **OCT Law Firm Scholarship**

#### **OCT 律師事務所獎學金**

Eligibility	: Bachelor's degree local students from Faculty of Law
Criteria	: Academic performance
Amount	:          Two scholarships, MOP5,000 each <ol style="list-style-type: none"> <li>1. One scholarship for student in third year of study, majoring in Law in Chinese Language</li> <li>2. One scholarship for student in fourth year of study, majoring in Law (Day-time programme taught in Chinese and Portuguese)</li> </ol>

### **Gloria Man Wai So Students Scholarship**

#### **蘇張文慧獎學金**

Eligibility	: Bachelor's degree Mainland China students from the Department of Chinese Language and Literature of Faculty of Arts and Humanities
Criteria	: Academic performance
Amount	: Two scholarships, MOP5,000 each

### **University of Macau (Hong Kong) Alumni Association Scholarship**

#### **澳門大學（香港）校友會獎學金**

Eligibility	: Bachelor's degree students from Faculty of Business Administration
Criteria	: Academic performance
Amount	:          Two scholarships, MOP5,000 each <ol style="list-style-type: none"> <li>1. One scholarship for local student</li> <li>2. One scholarship for non-local student</li> </ol>

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**Luso International Bank Whole Person Development Scholarship\*****澳門國際銀行全人發展獎學金**

- Eligibility : UM students  
Criteria : 1. GPA 2.5 or above  
2. Performance in the Whole Person Development Award Programme  
Amount : Ten scholarships, MOP5,000 each

**Wynn Macau Whole Person Development Scholarship\*****澳門永利全人發展獎學金**

- Eligibility : UM students  
Criteria : 1. GPA 2.5 or above  
2. Performance in the Whole Person Development Award Programme  
Amount : Ten scholarships, MOP5,000 each

**leong Kim Long Whole Person Development Scholarship\*****楊劍龍全人發展獎學金**

- Eligibility : UM students  
Criteria : 1. GPA 2.5 or above  
2. Performance in the Whole Person Development Award Programme  
Amount : Two scholarships, MOP5,000 each

**China Telecom Scholarship\* and Fellowship****中國電信獎學金**

- Eligibility : UM students  
Criteria : Scholarship  
1. Best Debaters of Mandarin Debating Team (two quotas of MOP5,000 each)  
2. Academic performance (one quota of MOP5,000 for Mainland China undergraduate students)  
Fellowship  
- Financial background (one quota of MOP5,000 for Mainland China undergraduate students)  
Amount : Three scholarships, MOP5,000 each; one fellowship of MOP5,000

**University of Macau Outstanding Student-Athletes Award Scheme\*****澳門大學傑出運動員獎勵計劃**

- Eligibility : Current UM students  
Criteria : Students who meet the academic requirements, with excellent sports performance and achievements  
Amount : Full or half waiver of tuition fee and/or study allowance  
Continuation : Depends on the academic and sports performance of the students

**Bank of China Macau Branch Elite Athletes Scholarship\*****中國銀行澳門分行精英運動員獎學金****Scholarship on sports achievements**

- Eligibility : UM students  
Criteria : Sports performance  
Amount : Three scholarships, MOP20,000 each and Four scholarships, MOP10,000 each



**Parry Group Sports Teams Development Scholarship\***

**百齡集團運動校隊發展獎學金**

**Scholarship on sports team development**

- Eligibility : UM Men's Soccer Team, UM Women's Basketball Team, UM Dragon Boat Team, UM Fencing Team, UM Squash Team and UM Swimming Team
- Criteria : Sports performance
- Amount : Four scholarships, MOP20,000 each and Two scholarships, MOP10,000 each

**SJM Sports Teams Development Scholarship\***

**澳娛綜合運動校隊發展獎學金**

**Scholarship on sports team development**

- Eligibility : UM Martial Arts Team and UM Tennis Team
- Criteria : Sports performance
- Amount : Two scholarships, MOP25,000 each

**BNU Sports Teams Development Scholarship\***

**大西洋銀行運動校隊發展獎學金**

**Scholarship on sports team development**

- Eligibility : UM Men's Volleyball Team and UM Women's Volleyball Team
- Criteria : Sports performance
- Amount : Two scholarships, MOP25,000 each

**Lisboa Holdings Scholarship\***

**葡京集團獎學金**

**Scholarship on sports achievements**

- Eligibility : UM students
- Criteria : Sports performance
- Amount : One scholarship, MOP20,000 and Two scholarships, MOP10,000 each

**Victormap Group Scholarship\***

**飛萬里集團獎學金**

**Scholarship on sports team development and sports achievements**

- Eligibility : UM Dragon and Lion Dance Team; students from UM Fencing Team and UM Martial Arts Team
- Criteria : Sports performance
- Amount : Three scholarships, MOP10,000 each

**Macau Black Bears Sports Teams Development Scholarship\***

**澳門黑熊運動校隊發展獎學金**

**Scholarship on sports team development**

- Eligibility : UM Korfball Team and UM Rock Climbing Team
- Criteria : Sports performance
- Amount : Two scholarships, MOP15,000 each

**Neoson Men's Basketball Team Development Scholarship\***

**上澳男子籃球隊發展獎學金**

**Scholarship on sports team development**

- Eligibility : UM Men's Basketball Team
- Criteria : Sports performance
- Amount : One scholarship, MOP20,000

**Kangaroo King Men's Soccer Team Development Scholarship\***

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**袋鼠王男子足球隊發展獎學金****Scholarship on sports team development**

Eligibility	:	UM Men's Soccer Team
Criteria	:	Sports performance
Amount	:	One scholarship, MOP20,000

**Maxim's Cake Shop Sports Teams Development Scholarship\*****美心餅店運動校隊發展獎學金****Scholarship on sports team development**

Eligibility	:	UM Badminton Team and UM Table Tennis Team
Criteria	:	Sports performance
Amount	:	Two scholarships, MOP10,000 each

**PizzaExpress Sports Team Development Scholarship\*****PizzaExpress 運動校隊發展獎學金****Scholarship on sports team development**

Eligibility	:	UM Women's Basketball Team
Criteria	:	Sports performance
Amount	:	One scholarship, MOP20,000

**Shun An Flower Shop Sports Teams Development Scholarship\*****順安花店運動校隊發展獎學金****Scholarship on sports team development**

Eligibility	:	UM Karate Team and UM Track and Field Team
Criteria	:	Sports performance
Amount	:	Two scholarships, MOP10,000 each

\*Scholarships are also available to postgraduate students.

## APPENDICES

# Postgraduate Scholarships and Assistantships

## Macao SAR Government Postgraduate Scholarships for Mainland China Students

### 澳門特區政府內地研究生獎學金

- Eligibility : Mainland China applicants of master's degree programmes
- Criteria : 1. Academic performance  
2. Recommendation of PRC Ministry of Education
- Amount : Covers tuition fee and hostel fee and provides a living allowance

## UMDF Scholarship – University of Macau Scholarship for Science, Technology, Engineering and Mathematics (STEM) Programmes

### 澳門大學發展基金會獎學金 – 澳門大學理工科課程獎學金

- Eligibility : Local students who are admitted to master's degree programmes in the selected STEM disciplines.
- Criteria : Determined by the academic units concerned.
- Amount : A one-off scholarship of MOP20,000 in the first year of study.

## UM PhD Scholarship

### 澳大博士生獎學金

- Eligibility : 1. Anyone seeking full-time PhD studies and opportunities to gain teaching and research experience at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.  
2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.
- Criteria : 1. Academic excellence  
2. Research abilities or potential  
3. Innovation skills  
4. Communication and interpersonal skills  
5. Leadership abilities
- Amount : A monthly stipend of MOP20,000 for up to four years (48 months).

## UM PhD Teaching Research Assistant

### 澳大博士生教研助理

- Eligibility : 1. Anyone seeking full-time PhD studies and opportunities to gain teaching and research experience at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.  
2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.
- Criteria : 1. Academic excellence  
2. Research abilities or potential  
3. Innovation skills  
4. Communication and interpersonal skills  
5. Leadership abilities
- Amount : Type A: A starting monthly stipend of MOP12,500 (upper limit MOP14,000) for up to four years (48 months).  
Type B: A monthly stipend that is equivalent to the monthly average of the programme full tuition fees to offset the tuition fees during the normative study period.

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### UM Macao PhD Scholarship

#### 澳大濠江博士生獎學金

- Eligibility : 1. Anyone seeking full-time PhD studies at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.  
2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.
- Criteria : 1. Academic excellence  
2. Research abilities or potential  
3. Innovation skills  
4. Communication and interpersonal skills  
5. Leadership abilities
- Amount : 1. A monthly stipend of MOP20,000 for up to four years (48 months).  
2. A conference or research-related travel allowance of MOP10,000 per calendar year (January to December) on a reimbursement basis during the support period. Applications for the travel allowance are accepted starting from the second semester upon registration.

### UM PhD Assistantship

#### 澳大博士生助學金

- Eligibility : 1. Anyone seeking full-time PhD studies at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.  
2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.
- Criteria : 1. Academic excellence  
2. Research abilities or potential  
3. Innovation skills  
4. Communication and interpersonal skills  
5. Leadership abilities
- Amount : A starting monthly stipend of MOP12,500 (upper limit MOP14,000) for up to four years (48 months).

### Research Assistantships

#### 研究助理助學金

- Eligibility : PhD students and Master's students
- Criteria : Determined by individual supervisors
- Amount : Determined by individual supervisors. Monthly upper limit as follows:  
- PhD students (before approval of PhD candidacy): MOP12,500  
- PhD students (after approval of PhD candidacy): MOP14,000  
- Master's students: MOP8,000

### Teaching Assistantships

#### 教學助理助學金

- Eligibility : PhD students and Master's students
- Criteria : Students with good academic performance are eligible to apply
- Amount : Determined by academic unit concerned. Monthly upper limit as follows:  
- PhD students (before approval of PhD candidacy): MOP12,500  
- PhD students (after approval of PhD candidacy): MOP14,000  
- Master's students: MOP8,000

### International Student Scholarship (Master Students)

#### 國際學生獎學金（碩士學位）

- Eligibility : International master's degree students, excluding Mainland China, Hong Kong and Taiwan region or those taking executive degree programmes
- Criteria : Students who have outstanding academic performance and assessment evaluation
- Amount : Tuition fee waiver & Postgraduate House (sharing room) fee waiver
- Continuation : Students can continue their scholarship during the normal study period upon fulfilment of the scholarship continuation requirements

### Instituto de Estudos Europeus de Macau Scholarship

#### 澳門歐洲研究學會獎學金

- Eligibility : Master's degree students majoring in European Union Law, International Law, or Comparative Law
- Criteria : Academic performance
- Amount : MOP15,000 (total amount), quota and amount per recipient determined by faculty according to the performance of students of the year

### Instituto de Estudos Europeus de Macau Academic Prize

#### 澳門歐洲研究學會學術獎項

- Eligibility : Best graduate from Master of Law in European Union Law
- Criteria : Academic Performance
- Amount : MOP15,000 (total amount), quota and amount per recipient determined by the faculty according to the performance of students of the year

### Bank of China Scholarship

#### 中國銀行獎學金

- Eligibility : Master's degree students
- Criteria : Academic Performance
- Amount : Five scholarships, MOP20,000 each
1. Four scholarships for students from Faculty of Business Administration (at least 1 student from each related department)
  2. One scholarship for student majoring in Economics of Faculty of Social Sciences

### Luso International Bank Scholarship

#### 澳門國際銀行獎學金

- Eligibility : Master's degree students
- Criteria : Academic Performance
- Amount : Four scholarships, MOP20,000 each
1. Two scholarships for students from Faculty of Business Administration
  2. Two scholarships for students majoring in Economics of Faculty of Social Sciences

### UMDF Scholarship – FED Scholarship for Outstanding Master Thesis

#### 澳門大學發展基金會獎學金 – 教育學院優秀碩士論文獎學金

- Eligibility : 1. FED Master students (year-2/year-3)  
2. Completion of oral defence
- Criteria : 1. Quality of the thesis writing  
2. Thesis written in English will be given higher priority
- Amount : Eight scholarships, MOP8,000 each

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**UMDF Scholarship – FED Scholarship for Outstanding Doctoral Thesis****澳門大學發展基金會獎學金 – 教育學院優秀博士論文獎學金**

- Eligibility : 1. FED Doctoral students (year-3/year-4)  
2. Completion of oral defence
- Criteria : Quality of the thesis writing
- Amount : Six scholarships, MOP15,000 each

**UMDF Scholarship – FED Scholarship for Outstanding PhD Research Outcomes****澳門大學發展基金會獎學金 – 教育學院博士生優秀研究成果獎學金**

- Eligibility : FED PhD students
- Criteria : 1. Accumulated publications in high quality journals (e.g., SSCI, TSSCI, SCI, AHCI, etc.) during PhD study in UM  
2. Journal impact factor  
3. Order of the authorship
- Amount : Six scholarships, MOP10,000 each

**Akrostar Academic Prize****芯耀輝學術獎項**

- Eligibility : Postgraduate graduates (including PhD) majoring in Electrical and Computer Engineering of Faculty of Science and Technology or Microelectronics of Institute of Microelectronics, local students preferred
- Criteria : Academic performance & R&D result in microelectronics circuit design
- Amount : Three prizes, MOP10,000 each

**BNU UM Affinity Card Scholarship****大西洋銀行澳門大學信用卡獎學金**

- Eligibility : Postgraduate students
- Criteria : Academic performance
- Amount : Three scholarships, MOP10,000 each  
1. Two scholarships for students from Institute of Chinese Medical Sciences  
2. One scholarship for student majoring in Translation Studies of Faculty of Arts and Humanities

**Macau Tung Sin Tong Scholarship****澳門同善堂獎學金**

- Eligibility : Postgraduate students majoring in Macao Studies or from related fields; the thesis research should be related to Macao studies such as the history of Macao's philanthropy or social services, or the tradition, culture, and spirituality of Chinese philanthropy
- Criteria : Academic performance and quality of paper
- Amount : One scholarship of MOP50,000 for PhD student  
Two scholarships, MOP10,000 each for Master students

**AOMI Scholarship****澳覓APP獎學金**

- Eligibility : Postgraduate students from Master of Business Administration, Master of Science in Data Science – Financial Technology, Master of Science in Data Science – Marketing Analytics
- Criteria : Academic performance
- Amount : Three scholarships, MOP10,000 each

## Macau Buddhism Foundation Scholarship

### 澳門佛教基金會獎學金

- |             |   |   |
|-------------|---|---|
| Eligibility | : | Postgraduate students majoring in Macao Studies or from related fields                                |
| Criteria    | : | Academic performance and research performance   |
| Amount      | : | One scholarship of MOP50,000 for PhD student<br>Five scholarships, MOP10,000 each for Master students |

# Principals' Recommended Admission (PRA) Rules

(Approval by the Rector on 28 October 2024)

1. Introduction

As the primary comprehensive university in the region, the University of Macau (UM) is committed to fostering local high quality and well-round talents as our mission. To this end, the “**Principals' Recommended Admission Scheme**” is established to allow local secondary school principals to recommend outstanding local students for direct admission. Under the scope of general Principals' Recommended Scheme, two sub-schemes namely the “**Chinese and Portuguese Bilingual Talent Nurturing Scheme**” and “**Outstanding Student-Athletes Admission Scheme**” are also devised so as to cultivate outstanding local Chinese and Portuguese talents for Macao S.A.R. as well as to encourage local student-athletes to pursue higher academic qualifications and to continue to make breakthrough in their sports achievement.

2. Recommended Qualification

Scheme	Application Qualification
“Principals' Recommended Admission Scheme”	<div><div>1. Excellent academic performance and good conduct;</div><div>2. Must hold Macao SAR Resident I.D. card and currently studying in Form 6 or equivalent of Macao secondary school;</div><div>3. Ranked among top 10% in terms of academic performance amongst all Form 5 (or equivalent) students (among total students from arts, commerce, science and other streams).</div><div>4. Applicants who may not meet criteria of above point 3 but possess any of the following outstanding academic performance, talents or achievements may also be recommended:<div><div>✓ Academic awards/ qualifications achieved (e.g. public academic competitions or public exams);</div><div>✓ Non-academic awards/ qualifications achieved (e.g. talents of the musicianship or sports area).</div></div></div></div>
“Chinese and Portuguese Bilingual Talent Nurturing Scheme”	<div><div>1. Excellent academic performance and good conduct;</div><div>2. Must hold Macao SAR Resident I.D. card and currently studying in Form 6 or equivalent of Macao secondary school;</div><div>3. Ranked among the top 30% in terms of academic performance amongst all Form 5 (or equivalent) students (including all students in arts, commerce, science and other streams);</div><div>4. Applicants must apply for admission to Bachelor of Arts in Portuguese Studies of Faculty of Arts and Humanities;</div></div>
“Outstanding Student-Athletes Admission Scheme”	<div><div>1. Excellent sports performance and good conduct;</div><div>2. Must hold Macao SAR Resident I.D. card and currently studying in Form 6 or equivalent of Macao secondary school;</div><div>3. Represented Macao S.A.R. to participate in international/regional sports competition within the last two years;</div><div>4. Applicants, who may not fulfil the condition of above point 3 but have represented Macao S.A.R. with good sports performance, can also apply by submitting the recommendation letter from sports association together with the recommendation by the school principal.</div></div>

3. Application Procedures and Documents

- 3.1 Recommended applicants must submit an on-line application for Principals' Recommended Admission together with the following required documents within the application period (Please refer to the “User Manual of Online Application System for Principals' Recommended Admission 2025/2026”):



Documents ( in A4 size except photo )	Remarks
<ul style="list-style-type: none"> <li>Valid Macao I.D. card</li> </ul>	Both sides on one paper
<ul style="list-style-type: none"> <li>One passport size color photo</li> </ul>	<ul style="list-style-type: none"> <li>3.5cm X 4.5cm</li> <li>white background is preferred</li> </ul>
<ul style="list-style-type: none"> <li>Official transcript of academic records for the recent two years of secondary education</li> </ul>	Academic records for Form 4 to Form 5
<p>Applicants being recommended with qualification of specific talents or outstanding achievements:</p> <ul style="list-style-type: none"> <li>Related certificates or proof for supplementary information of special talents, awards or community service</li> </ul>	<ul style="list-style-type: none"> <li>Qualification or award attained only during secondary school study is accepted.</li> <li>Photo of medal/trophy cannot serve as proof of award, which should be provided in the form of a testimonial issued by related authority/association or secondary school.</li> </ul>
<p>Applicable to applications for <b>"Outstanding Student-Athletes Admission Scheme"</b> only:</p> <ul style="list-style-type: none"> <li>Related certificates or proof of representing Macao S.A.R. to participate in international/regional sports competition within the last two years, or a written recommendation from sports association</li> </ul>	---

3.2 Interview will be conducted for qualified applicants.

## 4. Successful Applicants

### 4.1 Admission and Scholarship

4.1.1 For admission selection of "Principals' Recommended Admission Scheme" and "Chinese and Portuguese Bilingual Talent Nurturing Scheme":

4.1.1.1 The admission assessment is made by a holistic approach including factors of students' school performance, ranking, academic and non-academic talents, community service and interview, etc.,

4.1.1.2 Successful students admitted to our bachelor programme 2025/2026 intake may be granted one of the following scholarships:

- University of Macau Grand Lotus Scholarship;
- University of Macau Golden Lotus Scholarship;
- University of Macau Silver Lotus Scholarship;
- University of Macau First Year Scholarship.

4.1.1.3 Scholarship Content

Scholarship Type	Content	Remarks
University of Macau Grand Lotus Scholarship	<ul style="list-style-type: none"> <li>Full waiver of tuition fee for 1st academic year;</li> <li>Full waiver of Residential College accommodation fee for 1st academic year for around 10 months of 2 semesters (Students must stay in Residential College for the 1st academic year as to enjoy the full waiver of Residential College accommodation fee. If students are waived to stay in Residential College during the study period, the full waiver of fee will not be granted.);</li> <li>A scholarship of MOP30,000 for 1st academic year;</li> <li>Eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview</li> </ul>	<ul style="list-style-type: none"> <li>The Lotus Scholarships are renewable. Please refer to Continuation Rules of "University of Macau Lotus Scholarship" 2025/2026 attached.</li> <li>Subject to the scholarship type and continuation eligibility, students will also enjoy appropriate tuition fee waiver if they enrol in Honours College Certificate Programme and first registered minor programme upon admission.</li> </ul>
University of Macau Golden Lotus Scholarship	<ul style="list-style-type: none"> <li>Full waiver of tuition fee for 1st academic year;</li> <li>Eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview</li> </ul>	
University of Macau Silver Lotus Scholarship	<ul style="list-style-type: none"> <li>Half waiver of tuition fee for 1st academic year.</li> </ul>	
University of Macau First Year Scholarship	<ul style="list-style-type: none"> <li>One-off MOP5,000 scholarship.</li> </ul>	<ul style="list-style-type: none"> <li>The amount will be used to offset part of the tuition fee payable for the 1st semester of 1st academic year.</li> </ul>

4.1.2 For students to be admitted through "Outstanding Student-Athletes Admission Scheme", admission assessment will base on applicants' sports achievements, faculty interview and sports skill test performance (if applicable). For more information about the scholarship, please visit the website at <https://sports.osa.um.edu.mo/scholarshipscheme/>.

4.1.3 Successful applicants must hold a valid Macao I.D. card.

4.1.4 If a successful applicant defers study in the first academic year, the scholarship qualification will be terminated (inclusive of tuition fee waiver, Residential College accommodation fee waiver and related eligibility).

4.2 Successful applicants are not permitted to change their programmes of study once they have confirmed acceptance to the University.

4.3 After a successful applicant has accepted the admission (returning the "Statement of Acceptance"), he/she is not permitted to apply for admission to the Bachelor's degree programmes of the University by other channels. If he/she is found to be admitted through other channels, the University reserves the rights to cancel his/her admission qualifications.

4.4 All students admitted through the Principals' Recommended Admission Scheme

will follow the Admission Rules Governing Bachelor's Degree Programmes. Please visit the website at <https://reg.um.edu.mo/admissions/> for details.

#### 4.5 Obligation

- 4.5.1 Upon admission, scholarship recipients of "Principals' Recommended Admission Scheme" and "Chinese and Portuguese Bilingual Talent Nurturing Scheme" are obliged to participate and assist in any university activities which aim to cultivate students' sense of community service and their practical competence during the undergraduate study.
- 4.5.2 Upon admission, scholarship recipients of "Outstanding Student-Athletes Admission Scheme" are obliged to participate and assist in any university sports activities and represent UM to participate in any sports competitions during the undergraduate study.

### 5. Important Dates to Note

Date	Event
28 September 2024	Principals' Recommended Admission Talk
25 September – 15 October 2024	Application period
11 – 17 November 2024	Release of interview eligibility (interview permit will be released via online application system)
16 – 17 November 2024	Interview
Early to mid – December 2024	<ul style="list-style-type: none"> <li>Announcement of interview result</li> <li>Confirmation of admission by offered applicants</li> </ul>
Late January 2025	Submission of "Statement of Acceptance"
Late July 2025	Submission of registration documents (students are advised to proceed the medical examination from mid-May)
Early to mid – August 2025	New students move in Residential Colleges and Orientation
18 August 2025	Class commencement 2025/2026 (please visit to website at <a href="https://reg.um.edu.mo/university-almanac/">https://reg.um.edu.mo/university-almanac/</a> for details)

### 6. Admission Policy for Students with Disability

To provide equal admission opportunities, necessary study environment and facilities for students with disability, the University has devised the "Admission Policy for Students with Disability". Please visit the website at <https://reg.um.edu.mo/admissionpolicy> for details.

### 7. Disqualification

Applicants must guarantee that the information given in the application form is TRUE. The University of Macau reserves the rights to terminate an application, admission, study and scholarship at any time if:

- any information given in his/her application form is found later to be untrue and/or incorrect;
- an applicant had made untruthful declarations;
- an applicant offered with admission is found to have violated any of the regulations of the University of Macau or misconduct behavior.

Should such cases occur, the applicant any fees paid will not be refunded and all documents submitted will not be returned, the applicant shall bear the administrative, civil and criminal responsibilities under the law. He/she has to return the scholarship and no scholarship will be granted during the study.

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## Continuation Rules of “University of Macau Lotus Scholarship” 2025/2026

### 1. Target students

For students admitted with “University of Macau Lotus Scholarship” 2025/2026.

### 2. Qualifications

To enjoy the continuation of scholarship within the normal study period, students must:

- 2.1 complete at least 24 credits or the number of credits required by the designated study plan of the academic year at the University;
- 2.2 achieve the Residential College requirements (Please refer to website of Residential College at <https://rc.um.edu.mo/>)
- 2.3 achieve the following academic year's performance (yearly GPA):

Scholarship Type	For Faculty of Arts and Humanities, Faculty of Business Administration, Faculty of Education, Faculty of Health Sciences, Faculty of Social Sciences and Faculty of Science and Technology	For Faculty of Law		
	Grade Point Average (The highest letter grade is A, GPA=4.00)	% of Tuition Exempted	20-Point System	% of Tuition Exempted
University of Macau Grand Lotus Scholarship/ University of Macau Golden Lotus Scholarship	GPA: 3.30-4.00	100%	14	100%
University of Macau Silver Lotus Scholarship	GPA: 3.30-4.00	50%	14	50%

### 3. Scholarship period

The scholarship period is based on the normal study period of the registered major.

### 4. Termination of scholarship

The University reserves the rights to terminate the scholarship (inclusive of tuition fee waiver, Residential College accommodation fee waiver and related eligibility) if a student:

- 4.1 cannot achieve the academic year's performance mentioned above;
- 4.2 cannot complete his/her study within the normal period of study;
- 4.3 cannot achieve the Residential College requirements.

The University of Macau reserves the rights to terminate the study and scholarship at any time if the student is found to have any misconduct behavior who shall bear the administrative, civil and criminal responsibilities under the law, any fees paid will not

be refunded, have to return the scholarship and no scholarship will be granted during the study.

5. For students admitted through “Outstanding Student-Athletes Admission Scheme”, please visit Office of Sports Affairs website at <https://osa.um.edu.mo/> for details of Continuation Rules of University of Macau Lotus Scholarship.

# Rules on University of Macau Lotus Scholarship for Admission Examination

(Approval by the Rector on 03 January 2025)

To recognize candidates for their outstanding performance in the Admission Examination, the “University of Macau Golden Lotus Scholarship for Admission Examination” is awarded to the most competent students.

## 1. Target students

- 1.1 All eligible candidates must hold a valid Macao I.D. card; and
- 1.2 Must have sat for the Admission Examination of the current year. Candidates who have been exempted from taking particular Admission Examination subject(s) will not be eligible for selection of the scholarship for Admission Examination.

Scholarship selection is based on a candidate’s Admission Examination result, but not including any bonus marks added through the Bonus Scheme.

## 2. Scholarship Content

- 2.1 “University of Macau Golden Lotus Scholarship for Admission Examination” includes:
  - 2.1.1 Full waiver of tuition fee for 1st academic year;
  - 2.1.2 Eligibility of conditional admission to Honours College Certificate Programme upon passing the screening interview;
  - 2.1.3 Tuition fee for Honours College Certificate Programme (if applicable);
  - 2.1.4 Tuition fee for the first registered minor programme (if applicable).
- 2.2 For the continuation scheme of scholarship, please refer to point 3 for “Continuation Rules for Scholarship”. If a successful applicant defers study in the first academic year, the scholarship qualification will be terminated.
- 2.3 Scholarship recipients are obliged to participate and assist in any university activities which aim to cultivate students’ sense of community service and their practical competence during the undergraduate study.

## 3. Continuation Rules for Scholarship

- 3.1 All students granted with the “University of Macau Golden Lotus Scholarship for Admission Examination”, subject to their yearly academic performance, can continue enjoying full tuition fee waiver during 2nd to 4th academic year of study (during 2nd to 5th academic year of study for Bachelor of Law five-year programmes);
- 3.2 Evaluation is based on each academic year’s performance, the yearly GPA;
- 3.3 Students must complete at least 24 credits or the number of credits required by the designated study plan of the academic year at the University.

### 3.4 Requirement of academic performance:

Scholarship Type	For students of the Faculty of Arts and Humanities, Faculty of Business Administration, Faculty of Education, Faculty of Health Sciences, Faculty of Social Sciences and Faculty of Science and Technology		For students of the Faculty of Law	
	Grade Point Average (GPA)	% of Tuition Exempted	20-Point System	% of Tuition Exempted
University of Macau Golden Lotus Scholarship for Admission Examination	3.30-4.00	100%	14	100%

## 4. Termination of Scholarship

- 4.1 If a candidate accepts a scholarship through “Principals’ Recommended Admission” of the current year, he/she is not permitted to attend the Admission Examination of our University. If he/she is found to have applied for or to have attended the Admission Examination and is granted a scholarship for Admission Examination, the University reserves the right to remove his/her qualification for both scholarships (inclusive of tuition fee waiver and related eligibility).
- 4.2 The University reserves the right to disqualify the candidate’s scholarship (inclusive of tuition fee waivers stipulated in item 2.1) if the candidate:
  - 4.2.1 cannot achieve the academic year’s performance mentioned above;
  - 4.2.2 cannot complete his/her study within the normal period of study;
  - 4.2.3 cannot achieve Residential College requirements.
- 4.3 If a student who has made untruthful declarations, provided false information or obtained the benefits under the Scholarship by any illegal means shall bear the administrative, civil and criminal responsibilities under the law, any fees paid will not be refunded and shall return to the University the monetary value granted under the subsidy.

## Scholarship Continuation Policy for UM's Outgoing Exchange Students

(Approved by the Financial Management Committee on 31 October 2018)

[For Undergraduate Programmes Only]

This scholarship continuation policy applies to all UM's outgoing exchange students who are awarded scholarships by UM when admitted. UM's outgoing exchange students are advised to read this policy before they go abroad so as to know what requirements they should fulfil in order to continue their scholarships for the next academic year.

To be eligible for scholarship continuation, an outgoing exchange student should:

1. fulfil the exchange study plan which they have agreed with the academic unit concerned before they go abroad; and
2. achieve an overall result of Grade B, 3.0 on the 4-point GPA scale, or 13 on the 20-point scale at the exchange university. If the exchange university does not adopt any of these grading systems, the academic unit concerned could decide whether the student achieves such requirement based on the grading system adopted by the exchange university.

If the above 3 requirements are fulfilled, scholarship continuation would be granted and tuition fee would be exempted based on the student's academic result achieved at UM accordingly.

- For students joining the one-year exchange programme, tuition fee exemption would be based on their yearly GPA achieved at UM in the previous academic year.
- For students joining the one-semester exchange programme, tuition fee exemption would be based on their GPA achieved in the semester at UM in the exchange academic year.

For details of the related scholarship schemes, please visit the Registry's webpage at <https://reg.um.edu.mo/current-students/enrolment-and-examinations/scholarships/>.



## APPENDICES

# Funding Guidelines for PhD and Master's Students

## Guidelines for the UM PhD Scholarship and the UM PhD Teaching Research Assistant

(Approved by the Rector on 23 September 2024)

### 1. Objective

The University of Macau (UM) established the UM PhD Scholarship (*UMPS*) and the UM PhD Teaching Research Assistant (*UMTRA*) to recruit outstanding PhD students worldwide to pursue PhD studies at UM, and to provide practical teaching and research experience.

### 2. Application

#### 2.1. Eligibility

2.1.1. Anyone seeking full-time PhD studies and opportunities to gain teaching and research experience at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.

2.1.2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.

#### 2.2. Application procedures

2.2.1. Applications for the UMPS and the UMTRA should be submitted along with applications for admission to PhD degree programmes.

2.2.2. Degree certificates, research publications, academic awards, and other documents of academic achievements (if any), should be provided in their applications.

### 3. Selection

3.1. Applicants are assessed by the university-level selection committee according to the following criteria:

3.1.1. Academic excellence

3.1.2. Research abilities or potential

3.1.3. Innovation skills

3.1.4. Communication and interpersonal skills

3.1.5. Leadership abilities

3.2. The availability of the UMPS and the UMTRA is subject to quota limitation and decision of the university-level selection committee.

3.3. The UMPS is awarded to top-ranked applicants with excellent performance on the selection criteria. The UMTRA is classified into UMTRA-Type A and Type B, with UMTRA-Type A awarded to applicants with better performance on the selection criteria. The results of the UMPS or the UMTRA (Type A or Type B) are subject to the final decision of the university-level selection committee.

### 4. Offers

4.1. Successful applicants of the UMPS or the UMTRA are notified with their admission offers of PhD degree programme.

4.2. Successful applicants will be asked to provisionally accept their UMPS or UMTRA offers before registration. All conditions (if any) stated in the offers must be fulfilled. Offers that are once declined will not be re-considered.

4.3. Offer holders are strongly encouraged to complete registration at UM on or before the 15<sup>th</sup> of the designated month of initial registration (usually August) in the 1<sup>st</sup> semester of an academic year. Late registration in the 1<sup>st</sup> semester will result in shortened support

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period (please refer to “7. Financial Support for UMPS Awardees” and “8. Financial Support for TRAs”).

- 4.4. If an offer holder applies for deferment of studies before registration, he/she should also submit a separate application for suspension of support (please refer to “12. Deferment of Studies”).
- 4.5. Following the completion of registration, offer holders are required to sign their offer letters of the UMPS or the UMTRA with their respective academic units and provide information of their bank accounts in Macao on the student information system (<https://isw.um.edu.mo/siweb/>). If an offer holder fails to sign the offer letter, the UM may withhold or cancel the offer. If an offer holder fails to provide their bank information at the time of processing, the disbursement of monthly stipend will be delayed.

## **5. Requirements for UMPS Awardees and TRAs**

- 5.1. To be eligible for UMPS or UMTRA, students must comply with the following requirements throughout their support period:
  - 5.1.1. Remain without any form of paid employment (please refer to “14. Termination of Support”). Services for UM with non-monetary rewards or benefits (e.g. meals or accommodation) are not considered as paid employment.
  - 5.1.2. Remain without any other form of scholarships or assistantships (please refer to “14. Termination of Support”).
  - 5.1.3. Study exclusively at UM as full-time students of their enrolled PhD degree programmes (except academic agreements approved by UM).
  - 5.1.4. Maintain an active status throughout the support period.
  - 5.1.5. Report to the supervisor regularly and fulfil duties assigned by UM (please refer to “10. Duties”).
  - 5.1.6. Submit progress reports on time (please refer to “13. Suspension of Support” and “14. Termination of Support”).
- 5.2. Item 5.1.1 and 5.1.2 are not applicable to UMTRA-Type B.
- 5.3. Students who are or have been supported by the UMPS or the UMTRA have to specify UM as their primary affiliation in all publications out of the thesis/theses, unless agreed by the supervisor.
- 5.4. Failure to comply with any of the above requirements will result in suspension or termination of the UMPS or the UMTRA, unless justifications are endorsed by the Deans/Directors of the academic units concerned, and approved by the Vice Rector (Research) via the Graduate School.

## **6. Renewal**

- 6.1. The UMPS or the UMTRA is renewed on an annual basis. Awardees or TRAs should confirm and accept their renewal with their respective academic units.
- 6.2. Renewal of the UMPS or the UMTRA is based on academic performance, duty performance, and evaluation by supervisor.

## **7. Financial Support for UMPS Awardees**

- 7.1. The support for all eligible awardees begins only after they have completed registration, except special cases approved by UM. The six-month period from August to January of the next calendar year is regarded as the 1<sup>st</sup> semester, while the six-month period from February to July is regarded as the 2<sup>nd</sup> semester.
- 7.2. Shortened support period due to late registration will not be compensated.
- 7.3. Monthly stipend
  - 7.3.1. The UMPS provides each eligible awardee with a monthly stipend of MOP20,000 for a support period up to four years (48 months).
  - 7.3.2. Eligible awardees who complete their registration on or before the 15<sup>th</sup> of that month will be provided with full-month support starting from the month of registration. If registration is completed only after the 15<sup>th</sup> of that month, no support will be provided for that month.

- 7.3.3. Tuition fees will be offset by the monthly stipend before stipend disbursement (please refer to “9. Tuition Fees Offset”).

## **8. Financial Support for TRAs**

- 8.1. The support for all eligible TRAs begins only after the TRAs have completed registration, except special cases approved by UM. The six-month period from August to January of the next calendar year is regarded as the 1<sup>st</sup> semester, while the six-month period from February to July is regarded as the 2<sup>nd</sup> semester.
- 8.2. Shortened support period due to late registration will not be compensated.
- 8.3. TRAs admitted in Academic Year 2023/2024 are supported by UMTRA-Type A. TRAs admitted in Academic Year 2024/2025 onwards are supported by UMTRA-Type A or UMTRA-Type B.
- 8.4. Monthly stipend of UMTRA-Type A
  - 8.4.1. The UMTRA-Type A provides each eligible TRA with a starting monthly stipend of MOP12,500 for a support period up to four years (48 months).
  - 8.4.2. TRAs who submit both progress reports on time in an academic year, and are graded Scale 5 in both progress reports in the same academic year by their supervisors, will be entitled to a MOP500 increase in monthly stipend starting from the next academic year. The upper limit of the monthly stipend amount is MOP14,000.
  - 8.4.3. TRAs who postpone their registration to the 2<sup>nd</sup> semester and thus have only one progress report rating will not be entitled to the MOP500 increase in the next academic year.
  - 8.4.4. Tuition fees will be offset by the monthly stipend before stipend disbursement (please refer to “9. Tuition Fees Offset”).
- 8.5. Monthly stipend of UMTRA-Type B
  - 8.5.1. The UMTRA-Type B provides each eligible TRA with a monthly stipend that is equivalent to the monthly average of the programme full tuition fees during the normative study period.
  - 8.5.2. UMTRA-Type B is compatible with other financial support provided by UM. The upper limit of financial support given to a TRA per month is MOP12,500 less the monthly stipend of UMTRA-Type B.
- 8.6. Eligible TRAs who complete their registration on or before the 15<sup>th</sup> of that month will be provided with full-month support starting from the month of registration. If registration is completed only after the 15<sup>th</sup> of that month, no support will be provided for that month.

## **9. Tuition Fees Offset**

- 9.1. Tuition fees are offset in monthly installments by the monthly stipend before stipend disbursement. Under normal circumstances, UMPS awardees and TRAs do not need to settle the tuition fees by themselves during their support period.
- 9.2. The following are details of monthly tuition fees offset for UMPS awardees and TRAs (examples in “Appendix”):
  - 9.2.1. The amount of monthly tuition fees offset is the monthly average of the programme full tuition fees.
  - 9.2.2. For UMTRA-Type A, in the first five months upon registration (except late registration), tuition fees will also be offset by the monthly average of the non-refundable deposit. For UMTRA-Type B, the non-refundable deposit will be returned to the student after initial registration.
  - 9.2.3. For awardees and TRAs who register late at UM, tuition fees incurred that are not covered by the monthly stipend will be paid by the student to the Finance Office.
- 9.3. After the end of the support period or when support is suspended or terminated, students will need to begin settling tuition fees by themselves.
- 9.4. In case of suspension or termination of support, any outstanding tuition fees not offset by the monthly stipend are payable by the students. The payable amount will be shown in the Debit Note provided by the Finance Office.

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## **10. Duties**

- 10.1. Aside from fulfilling the duties and responsibilities as full-time PhD students, UMPS awardees and TRAs are required to fulfil one or more of the following types of duties:
  - 10.1.1. Ancillary teaching (including the supervision of master's theses)
  - 10.1.2. Administrative service
  - 10.1.3. Research
- 10.2. Duties of 5 to 15 hours per week are assigned by academic units and/or supervisors.

## **11. Responsibilities of Supervisors**

- 11.1. Supervisors should schedule regular meetings with their students and provide them with guidance.
- 11.2. Supervisors should maintain a fair and professional manner in accordance with relevant regulations, rules, and guidelines of UM.

## **12. Deferment of Studies**

- 12.1. UMPS awardees or TRAs who defer their studies should submit a separate application for the suspension of support if deemed necessary. Only medical or other exceptional cases with strong justifications will be accepted for suspension. Otherwise, the UMPS or the UMTRA will be terminated.
- 12.2. The suspension of support due to deferment of studies should be endorsed by supervisors and approved by the Deans/Directors of academic units concerned. The Graduate School and the Finance Office should then be informed accordingly.
- 12.3. UMPS awardees or TRAs can only apply for suspension once and the suspension period should not exceed two semesters. Special cases are subject to the approval by the Vice Rector (Research).
- 12.4. For UMPS awardees and TRA-Type As, the monthly stipend for the starting month of deferment is provided on a pro rata basis, while no financial support is provided during other months of deferment. For TRA-Type Bs, the full monthly stipend for the starting month of deferment is provided if the approval date of deferment is on or after the 16th of the month.
- 12.5. The starting month of deferment is counted as a whole month towards the support period, regardless of the amount of monthly stipend disbursed. However, other months of deferment are not counted towards the support period.

## **13. Suspension of Support**

- 13.1. The UMPS or the UMTRA will be suspended in any of the following cases:
  - 13.1.1. Deferment of studies (please refer to "12. Deferment of Studies").
  - 13.1.2. Failure to fulfil duties assigned by UM (please refer to "10. Duties").
  - 13.1.3. Absence from duties without prior approval or unjustified absence.
  - 13.1.4. Failure to submit progress reports on time.
- 13.2. For suspension due to conditions stated in Item 13.1.2 to 13.1.4, the period of suspension is counted towards the support period.
- 13.3. If awardees or TRAs fail to submit the progress report within one month after the submission deadline, the UMPS or the UMTRA will automatically be suspended from the subsequent month until the month following the submission of report.

## **14. Termination of Support**

- 14.1. The UMPS or the UMTRA will be terminated in any of the following cases:
  - 14.1.1. Failure to maintain an active status, except conditions stated in Item 12.1.
  - 14.1.2. Completion of the PhD degree programme.
  - 14.1.3. Awardees or TRAs undertaking any forms of paid employment.
  - 14.1.4. Awardees or TRAs receiving any other form of scholarships and assistantships.
  - 14.1.5. Concurrent registration at other higher education institutions (except academic agreements approved by UM).
  - 14.1.6. Violation of regulations, rules, and guidelines of UM.
  - 14.1.7. Non-compliance with leave of absence requirements.

- 14.1.8. Misrepresentation, fraudulence, and non-disclosure of information in the applications of the UMPS or the UMTRA.
  - 14.1.9. Awardees or TRAs receive any of the following combinations of progress report ratings from supervisors:
    - 14.1.9.1. Two Scale 2 in any two progress reports; or
    - 14.1.9.2. Two Scale 1 in any two progress reports; or
    - 14.1.9.3. A Scale 2 and a Scale 1 in any two progress reports.
    - 14.1.9.4. In extraordinary circumstances, a Scale 1 in any one report.
  - 14.1.10. Unsatisfactory duty performance.
  - 14.2. Item 14.1.3 and 14.1.4 are not applicable to UMTRA-Type B.
  - 14.3. Terminated UMPS and UMTRA cannot be resumed.
  - 14.4. No stipend will be provided for the effective month of termination regardless of the hours of duties fulfilled. Exception for UMPS awardees and TRA-Type As is graduation or withdrawal of studies before the end of the support period, for which the stipend for the effective month will be provided on a pro rata basis. Exception for TRA-Type Bs is graduation before the end of support period, for which the full stipend for the effective month will be provided if the graduation date is on or after the 16<sup>th</sup> of the month.
  - 14.5. Termination does not exempt students from the payment of any outstanding fees.
  - 14.6. Subject to the situation of each case, for cases from 14.1.3 to 14.1.7, the UM reserves the right to collect any financial support previously provided to the awardees or TRAs. For cases of 14.1.8, the awardees or TRAs must return all the financial support provided to them.
  - 14.7. For cases from 14.1.9.1 to 14.1.9.3, the UMPS or the UMTRA will be terminated automatically at the end of the month of evaluation.
  - 14.8. For cases of 14.1.9.4, the supervisor may suggest termination to the UMPS or the UMTRA with justification to the Dean/Director of the academic unit concerned for endorsement, and to the Dean of Graduate School for approval.
  - 14.9. For cases of 14.1.10, the concerned unit shall form a unit-level ad-hoc committee to review the case and make recommendation for approval of Vice Rector (Research) via the Graduate School.
- 15. Demotion**
- 15.1. UMPS Awardees and TRA-Type As will be demoted if they have received any of the following combinations of progress report ratings from their supervisors:
    - 15.1.1. A Scale 3, then a Scale 2 or Scale 1 in any report after this Scale 3.
    - 15.1.2. In extraordinary circumstances, a Scale 2 or Scale 1 in any one report.
  - 15.2. For cases of 15.1.2, the supervisor may suggest demotion with justification to the Dean/Director of the academic unit concerned for endorsement, and to the Dean of Graduate School for approval.
- 16. Special Cases**
- 16.1. For UMPS awardees and TRAs under the “1+3 PhD Programme”, tuition fees offset will apply after their tuition fee waiver period and duties will apply after the completion of their arranged master’s degree programmes.
  - 16.2. For UMPS awardees and TRAs under the Dual Doctoral Degree Programme, they are required to maintain an active status during their outgoing semesters.
  - 16.3. Participation in exchange programmes will be approved on a case-by-case basis.
  - 16.4. For duly justified exceptions, special approval from the Vice Rector (Research) should be sought.
- 17. Administration**
- The UMPS and the UMTRA are administered by the Graduate School. For uncertain or ambiguous cases, discretion from the Graduate School should be sought.
- 18. Applicability**
- This set of Guidelines is effective upon approval and is only applicable to UMPS

awardees and TRAs who are admitted from Academic Year 2023/2024 onwards (UM-centralized funding).

#### 19. Remark

The Guidelines are subject to revisions by UM. When revisions are made, UMPS awardees and TRAs will be informed accordingly.

### Appendix Examples of Tuition Fees Offset

#### Example 1

**Admission Year:** Academic Year 2023/2024

**Residence:** Mainland China

Details	UMPS Awardee	TRA-Type A
<b>Period:</b> August to December 2023	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP150,000 per programme ÷ 48 months) – (MOP5,000 Non-refundable deposit ÷ 5 months)	-2,125	-2,125
<b>Monthly stipend after tuition fees offset</b>	<b>17,875</b>	<b>10,375</b>

Details	UMPS Awardee	TRA-Type A
<b>Period:</b> January 2024 onward	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP150,000 per programme ÷ 48 months)	-3,125	-3,125
<b>Monthly stipend after tuition fees offset</b>	<b>16,875</b>	<b>9,375</b>

#### Example 2

**Admission Year:** Academic Year 2023/2024

**Residence:** Mainland China

**Graduation Date:** 28 July 2027

Details	UMPS Awardee	TRA-Type A
<b>Period:</b> July 2027	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
Monthly stipend (MOP20,000 or 12,500 x 28 days ÷ 30 days)	18,666.67	11,666.67
Tuition fees offset (MOP150,000 per programme ÷ 48 months)	-3,125.00	-3,125.00
<b>Monthly stipend after tuition fees offset</b>	<b>15,541.67</b>	<b>8,541.67</b>

## Guidelines for the UM Macao PhD Scholarship and the UM PhD Assistantship

(Approved by the Rector on 23 September 2024)

### 1. Objective

The University of Macau (UM) established the UM Macao PhD Scholarship (*MPDS*) and the UM PhD Assistantship (*Assistantship*) to recruit outstanding PhD students worldwide.

### 2. Application

#### 2.1. Eligibility

- 2.1.1. Anyone seeking full-time PhD studies at UM is eligible to apply, regardless of nationality, ethnic background, or prior work experience.
- 2.1.2. Applicants should fulfill all general admission requirements for PhD degree programmes and any additional admission requirements for certain programmes.

#### 2.2. Application procedures

- 2.2.1. Applications for the MPDS and the Assistantship should be submitted along with applications for admission to PhD degree programmes.
- 2.2.2. Degree certificates, research publications, academic awards, and other documents of academic achievements (if any), should be provided in their applications.

### 3. Selection

- 3.1. Applicants are assessed by the university-level selection committee according to the following criteria:
  - 3.1.1. Academic excellence
  - 3.1.2. Research abilities or potential
  - 3.1.3. Innovation skills
  - 3.1.4. Communication and interpersonal skills
  - 3.1.5. Leadership abilities
- 3.2. The availability of the MPDS and the Assistantship is subject to quota limitation and decision of the university-level selection committee.
- 3.3. The MPDS is awarded to top-ranked applicants with excellent performance on the selection criteria. The results of the MPDS or the Assistantship are subject to the final decision of the university-level selection committee.

### 4. Offers

- 4.1. Successful applicants of the MPDS or the Assistantship are notified with their admission offers of PhD degree programme.
- 4.2. Successful applicants will be asked to provisionally accept their MPDS or Assistantship offers before initial registration. All conditions (if any) stated in the offers must be fulfilled. Offers that are once declined will not be re-considered.
- 4.3. Offer holders are strongly encouraged to complete registration at UM on or before the 15<sup>th</sup> of the designated month of initial registration (usually August) in the 1<sup>st</sup> semester of an academic year. Late registration in the 1<sup>st</sup> semester will result in shortened support period (please refer to “7. Financial Support for MPDS Awardees” and “8. Financial Support for Assistantship Recipients”).
- 4.4. If an offer holder applies for deferment of studies before registration, he/she should also submit a separate application for suspension of support (please refer to “12. Deferment of Studies”).
- 4.5. Following the completion of registration, offer holders are required to sign their offer letters of the MPDS or the Assistantship with their respective academic units and provide information of their bank accounts in Macao on the student information system (<https://isw.um.edu.mo/siweb/>). If an offer holder fails to sign the offer letter, the UM may withhold or cancel the offer. If an offer holder fails to provide their bank information at the time of processing, the disbursement of monthly stipend will be delayed.

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## **5. Requirements for MPDS Awardees and Assistantship Recipients**

- 5.1. To be eligible for MPDS or Assistantship, students must comply with the following requirements throughout their support period:
  - 5.1.1. Remain without any form of paid employment (please refer to “14. Termination of Support”). Services for UM with non-monetary rewards or benefits (e.g. meals or accommodation) are not considered as paid employment.
  - 5.1.2. Remain without any other form of scholarships or assistantships (please refer to “14. Termination of Support”).
  - 5.1.3. Study exclusively at UM as full-time students of their enrolled PhD degree programmes (except academic agreements approved by UM).
  - 5.1.4. Maintain an active status throughout the support period.
  - 5.1.5. Report to the supervisor regularly and fulfil duties assigned by UM (please refer to “10. Duties”).
  - 5.1.6. Submit progress reports on time (please refer to “13. Suspension of Support” and “14. Termination of Support”).
- 5.2. Students who are or have been supported by the MPDS or Assistantship have to specify UM as their primary affiliation in all publications out of the thesis/theses, unless agreed by the supervisor.
- 5.3. Failure to comply with any of the above requirements will result in suspension or termination of the MPDS or the Assistantship, unless justifications are endorsed by the Deans/Directors of the academic units concerned, and approved by the Vice Rector (Research) via the Graduate School.

## **6. Renewal**

- 6.1. The MPDS or the Assistantship is renewed on an annual basis. Awardees or recipients should confirm and accept their renewal with their respective academic units.
- 6.2. Renewal of the MPDS or the Assistantship is based on academic performance, duty performance, and evaluation by supervisor.

## **7. Financial Support for MPDS Awardees**

- 7.1. The support for all eligible awardees begins only after they have completed registration, except special cases approved by UM. The six-month period from August to January of the next calendar year is regarded as the 1<sup>st</sup> semester, while the six-month period from February to July is regarded as the 2<sup>nd</sup> semester.
- 7.2. Shortened support period due to late registration will not be compensated.
- 7.3. Monthly stipend
  - 7.3.1. The MPDS provides each eligible awardee with a monthly stipend of MOP20,000 for a support period up to four years (48 months).
  - 7.3.2. Eligible awardees who complete their registration on or before the 15<sup>th</sup> of that month will be provided with full-month support starting from the month of registration. If registration is completed only after the 15<sup>th</sup> of that month, no support will be provided for that month.
  - 7.3.3. Tuition fees will be offset by the monthly stipend before stipend disbursement (please refer to “9. Tuition Fees Offset”).
- 7.4. Conference or research-related travel allowance
  - 7.4.1. The MPDS provides each eligible awardee with a conference or research-related travel allowance. Awardees should refer to the *Guidelines for Conference or Research-Related Travel Allowance of the UM Macao PhD Scholarship* for details.

## **8. Financial Support for Assistantship Recipients**

- 8.1. The support for all eligible recipients begins only after the awardees have completed registration, except special cases approved by UM. The six-month period from August to January of the next calendar year is regarded as the 1<sup>st</sup> semester, while the six-month period from February to July is regarded as the 2<sup>nd</sup> semester.
- 8.2. Shortened support period due to late registration will not be compensated.



**8.3. Monthly stipend**

- 8.3.1. The Assistantship provides each eligible recipient with a starting monthly stipend of MOP12,500 for a support period up to four years (48 months).
- 8.3.2. Recipients who submit both progress reports on time in an academic year, and are graded Scale 5 in both progress reports in the same academic year by their supervisors, will be entitled to a MOP500 increase in monthly stipend starting from the next academic year. The upper limit of the monthly stipend amount is MOP14,000.
- 8.3.3. Recipients who postpone their registration to the 2<sup>nd</sup> semester and thus have only one progress report rating will not be entitled to the MOP500 increase in the next academic year.
- 8.3.4. Eligible recipients who complete their registration on or before the 15<sup>th</sup> of that month will be provided with full-month support starting from the month of registration. If registration is completed only after the 15<sup>th</sup> of that month, no support will be provided for that month.
- 8.3.5. Tuition fees will be offset by the monthly stipend before stipend disbursement (please refer to "9. Tuition Fees Offset").

**9. Tuition Fees Offset**

- 9.1. Starting from 1 February 2021, tuition fees are offset in monthly installments by the monthly stipend before stipend disbursement. Under normal circumstances, MPDS awardees and Assistantship recipients do not need to settle the tuition fees by themselves during their support period.
- 9.2. The following are the amounts of tuition fees offset per month for MPDS awardees and Assistantship recipients admitted or resuming studies in different academic years (examples in "Appendix"):
  - 9.2.1. For awardees admitted in Academic Year 2018/2019 or 2019/2020 and recipients admitted in Academic Year 2019/2020 and are following a credit-based tuition fee scheme, the amount of tuition fees offset will be the monthly average of three credits per semester. For the tuition fees due to enrolled credits beyond this amount, the awardees and recipients will need to pay by themselves.
  - 9.2.2. For awardees and recipients who begin or resume their studies from Academic Year 2020/2021 onwards and are following a programme-based tuition fee scheme, the amount of tuition fees offset will be the monthly average of the programme full tuition fees.
  - 9.2.3. In the first five months upon registration (except late registration), tuition fees will also be offset by the monthly average of the non-refundable deposit.
  - 9.2.4. For awardees and recipients who register late at UM, tuition fees incurred that were not covered by the monthly stipend will be paid by the student to the Finance Office.
- 9.3. After the end of the support period or when support is suspended or terminated, students will need to begin settling tuition fees by themselves.
- 9.4. In case of suspension or termination of support, any outstanding tuition fees not offset by the monthly stipend are payable by the students. The payable amount will be shown in the Debit Note provided by the Finance Office.

**10. Duties**

- 10.1. Aside from fulfilling the duties and responsibilities as full-time PhD students, MPDS awardees and Assistantship recipients are required to fulfil one or more of the following types of duties:
  - 10.1.1. Ancillary teaching (including the supervision of master's theses)
  - 10.1.2. Administrative service
  - 10.1.3. Research
- 10.2. Duties of 5 to 15 hours per week are assigned by academic units and/or supervisors.

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## **11. Responsibilities of Supervisors**

- 11.1. Supervisors should schedule regular meetings with their students and provide them with guidance.
- 11.2. Supervisors should maintain a fair and professional manner in accordance with relevant regulations, rules, and guidelines of UM.

## **12. Deferment of Studies**

- 12.1. MPDS awardees or Assistantship recipients who defer their studies should submit a separate application for the suspension of support if deemed necessary. Only medical or other exceptional cases with strong justifications will be accepted for suspension. Otherwise, the MPDS or the Assistantship will be terminated.
- 12.2. The suspension of support due to deferment of studies should be endorsed by supervisors and approved by the Deans/Directors of academic units concerned. The Graduate School and the Finance Office should then be informed accordingly.
- 12.3. MPDS awardees or Assistantship recipients can only apply for suspension once and the suspension period should not exceed two semesters. Special cases are subject to the approval by the Vice Rector (Research).
- 12.4. Monthly stipend for the starting month of deferment is provided on a pro rata basis, while no financial support is provided during other months of deferment.
- 12.5. The starting month of deferment is counted as a whole month towards the support period, regardless of the amount of monthly stipend disbursed. However, other months of deferment are not counted towards the support period.

## **13. Suspension of Support**

- 13.1. The MPDS or the Assistantship will be suspended in any of the following cases:
  - 13.1.1. Deferment of studies (please refer to "12. Deferment of Studies").
  - 13.1.2. Failure to fulfil duties assigned by UM (please refer to "10. Duties").
  - 13.1.3. Absence from duties without prior approval or unjustified absence.
  - 13.1.4. Failure to submit progress reports on time.
- 13.2. For suspension due to conditions stated in Item 13.1.2 to 13.1.4, the period of suspension is counted towards the support period.
- 13.3. If awardees or recipients fail to submit the progress report within one month after the submission deadline, the MPDS or Assistantship will automatically be suspended from the subsequent month until the month following the submission of report.

## **14. Termination of Support**

- 14.1. The MPDS or the Assistantship will be terminated in any of the following cases:
  - 14.1.1. Failure to maintain an active status, except conditions stated in Item 12.1.
  - 14.1.2. Completion of the PhD degree programme.
  - 14.1.3. Awardees or recipients undertaking any forms of paid employment.
  - 14.1.4. Awardees or recipients receiving any other form of scholarships and assistantships.
  - 14.1.5. Concurrent registration at other higher education institutions (except academic agreements approved by UM).
  - 14.1.6. Violation of regulations, rules, and guidelines of UM.
  - 14.1.7. Non-compliance with leave of absence requirements.
  - 14.1.8. Misrepresentation, fraudulence, and non-disclosure of information in the applications of the MPDS or the Assistantships.
  - 14.1.9. Awardees or recipients receive any of the following combinations of progress report ratings from supervisors:
    - 14.1.9.1. Two Scale 2 in any two progress reports; or
    - 14.1.9.2. Two Scale 1 in any two progress reports; or
    - 14.1.9.3. A Scale 2 and a Scale 1 in any two progress reports.
    - 14.1.9.4. In extraordinary circumstances, a Scale 1 in any one report.
  - 14.1.10. Unsatisfactory duty performance.
- 14.2. Terminated MPDS and Assistantship cannot be resumed.

- 14.3. No stipend will be provided for the effective month of termination regardless of the hours of duties fulfilled. Exception to that is graduation or withdrawal of studies before the end of the support period, in which the stipend for the effective month of termination will be provided on a pro rata basis.
- 14.4. Termination does not exempt students from the payment of any outstanding fees.
- 14.5. Subject to the situation of each case, for cases from 14.1.3 to 14.1.7, UM reserves the right to collect any financial support previously provided to the awardees or recipients. For cases of 14.1.8, the awardees or recipients must return all the financial support provided to them.
- 14.6. For cases from 14.1.9.1 to 14.1.9.3, the MPDS or Assistantship will be terminated automatically at the end of the month of evaluation.
- 14.7. For cases of 14.1.9.4, the supervisor may suggest termination to the MPDS or Assistantship with justification to the Dean/Director of the academic unit concerned for endorsement, and to the Dean of Graduate School for approval.
- 14.8. For cases of 14.1.10, the concerned unit shall form a unit-level ad-hoc committee to review the case and make recommendation for approval of Vice Rector (Research) via the Graduate School.

## **15. Demotion**

- 15.1. MPDS awardees and Assistantship recipients will be demoted if they have received any of the following combinations of progress report ratings from their supervisors:
  - 15.1.1. A Scale 3, then a Scale 2 or Scale 1 in any report after this Scale 3.
  - 15.1.2. In extraordinary circumstances, a Scale 2 or Scale 1 in any one report.
- 15.2. For cases of 15.1.2, the supervisor may suggest demotion with justification to the Dean/Director of the academic unit concerned for endorsement, and to the Dean of Graduate School for approval.

## **16. Special Cases**

- 16.1. For MPDS awardees and Assistantship recipients under the “1+3 PhD Programme”, tuition fees offset will apply after their tuition fee waiver period and duties will apply after the completion of their arranged master’s degree programmes.
- 16.2. Participation in exchange programmes will be approved on a case-by-case basis.
- 16.3. For duly justified exceptions, special approval from the Vice Rector (Research) should be sought.

## **17. Administration**

The MPDS and the Assistantship are administered by the Graduate School. For uncertain or ambiguous cases, discretion from the Graduate School should be sought.

## **18. Applicability**

This set of Guidelines is effective upon approval and is only applicable to MPDS awardees and UM PhD Assistantship recipients (UM-centralized funding).

## **19. Remark**

The Guidelines are subject to revisions by UM. When revisions are made, MPDS awardees and Assistantship recipients will be informed accordingly.

## Appendix Examples of Tuition Fees Offset

### Example 1

**Admission Year:** Academic Year 2018/2019 or 2019/2020

**Tuition Fee Scheme:** Credit-based

**Residence:** Mainland China

	<b>MPDS Awardee</b>	<b>Assistantship Recipient</b>
<b>Details</b>	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP3,310 per credit x 3 credits ÷ 6 months)	-1,655	-1,655
<b>Monthly stipend disbursed to awardee/recipient</b>	<b>18,345</b>	<b>10,845</b>

### Example 2

**Admission Year:** Academic Year 2020/2021

**Tuition Fee Scheme:** Programme-based

**Residence:** Mainland China

	<b>MPDS Awardee</b>	<b>Assistantship Recipient</b>
<b>Details</b>	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP111,760 per programme ÷ 48 months)	-2,328.33	-2,328.33
<b>Monthly stipend disbursed to awardee/recipient</b>	<b>17,671.67</b>	<b>10,171.67</b>

### Example 3

**Admission Year:** Academic Year 2021/2022

**Registration Date:** 10 August 2021

**Tuition Fee Scheme:** Programme-based

**Residence:** Mainland China

	<b>MPDS Awardee</b>	<b>Assistantship Recipient</b>
<b>Details</b>	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
<b>Period: August to December 2021 (5 months)</b>		
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP111,760 per programme ÷ 48 months) – (MOP5,000 Non-refundable deposit ÷ 5 months)	-1,328.33	-1,328.33
<b>Monthly stipend disbursed to awardee/recipient</b>	<b>18,671.67</b>	<b>11,171.67</b>
<b>Details</b>	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
<b>Period: January 2022 onwards</b>		
Original monthly stipend	20,000	12,500
Tuition fees offset (MOP111,760 per programme ÷ 48 months)	-2,328.33	-2,328.33
<b>Monthly stipend disbursed to awardee/recipient</b>	<b>17,671.67</b>	<b>10,171.67</b>

**Example 4**

**Admission Year:** Academic Year 2021/2022

**Registration Date:** 10 August 2021

**Tuition Fee Scheme:** Programme-based

**Residence:** Mainland China

**Termination Date\*:** 18 May 2025

	<b>MPDS Awardee</b>	<b>Assistantship Recipient</b>
<b>Details</b>	<b>Amount (MOP)</b>	<b>Amount (MOP)</b>
<b>Period:</b> May 2025 (the 46 <sup>th</sup> month of support)		
Monthly stipend (MOP20,000 ÷ 30 days x 18 days) or (MOP12,500 ÷ 30 days x 18 days)	12,000	7,500
Tuition fees offset (MOP111,760 per programme ÷ 48 months)	-2,328.33	-2,328.33
<b>Monthly stipend disbursed to awardee/recipient</b>	<b>9,671.67</b>	<b>5,171.67</b>

\*Due to circumstances that are eligible for pro rata monthly stipend as mentioned in the current Guidelines.

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# Guidelines for Conference or Research-Related Travel Allowance of the UM Macao PhD Scholarship

(Approved by the Rector on 14 October 2022)

## 1. General Guidelines

- 1.1. The UM Macao PhD Scholarship (MPDS) provides each eligible awardee with a conference or research-related travel allowance of MOP10,000 per calendar year (January to December) on a reimbursement basis during the support period.
- 1.2. Applications for the travel allowance are accepted starting from the second semester upon registration.
- 1.3. The travel allowance covers a maximum of two trips per calendar year.
- 1.4. The unused travel allowance in a calendar year cannot be carried forward to the next calendar year.
- 1.5. Trips taken by eligible awardees must be finished before the end of a calendar year and their support periods.

## 2. Applications

- 2.1. Each application for travel allowance consists of two steps:
  - 2.1.1. Trip application: to obtain approval for the trip and budget from Deans/Directors of academic units concerned, which should be completed before the trip and expenses.
  - 2.1.2. Reimbursement application: to obtain reimbursement for the expenses paid for the trip, which should be completed after the trip.

## 3. Trip Application

- 3.1. At least 30 days before the payment deadline of conference registration fees or the payment for intercity transport (whichever is earlier), applicants should submit trip applications to their respective academic units (faculty/institution). Late submissions will not be processed.
- 3.2. No expenses should be paid before approval.
- 3.3. Applicants must be invited or accepted to present at conferences (conference trips) or to conduct research at destination universities or institutions (research trips).
- 3.4. Expenses covered by the travel allowance:
  - 3.4.1. Conference registration fee (if applicable)
  - 3.4.2. Accommodation
  - 3.4.3. Intercity transportation (limited to standard economy class flights, trains, buses, or ferries. Other types of economy class, e.g. premium economy, are not covered)
  - 3.4.4. Local transportation at destination
- 3.5. Trip period:
  - 3.5.1. Trip period should not exceed the duration of conference or research work.
  - 3.5.2. For destinations outside the Hong Kong Special Administrative Region and Guangdong Province, the trip period can be extended for two days: one for the outgoing trip and one for the return trip.
  - 3.5.3. For destinations outside Asia, the trip period can be extended for another additional day, either for the outgoing trip or the return trip.
  - 3.5.4. Special cases should be backed up with justifications.
  - 3.5.5. Trip period includes weekends and public holidays in Macau.
- 3.6. Documents required for conference trip application:
  - 3.6.1. Conference and registration information
  - 3.6.2. Invitation or acceptance letter from the conference organizer
  - 3.6.3. Abstract
  - 3.6.4. Proposed budget
  - 3.6.5. Written consultation (quotations) for accommodation and transportation

- 3.7. Documents required for research trip application:
  - 3.7.1. Invitation or acceptance letter from the destination university or institution
  - 3.7.2. Brief description of the trip, including:
    - 3.7.2.1. Research topic
    - 3.7.2.2. Purpose of the trip
    - 3.7.2.3. Expected outcome(s)
    - 3.7.2.4. Daily schedule
    - 3.7.2.5. Justification(s) for conducting the research work outside Macau
  - 3.7.3. Proposed budget
  - 3.7.4. Written consultation (quotations) for accommodation and transportation
4. **Reimbursement Application**
  - 4.1. Within one week after the end of the trip, applicants should submit reimbursement applications to their respective academic units (faculty/institution). Late submissions will not be processed.
  - 4.2. For trips in December, reimbursement applications must be submitted within three days after the end of the trips or by the last working day of the month, whichever comes earlier.
  - 4.3. Only one application per trip is accepted.
  - 4.4. Documents required for reimbursement application:
    - 4.4.1. All original receipts of accommodation, transportation, and conference registration (if applicable)
    - 4.4.2. Trip report (with signature by supervisor)
5. **Remarks**
  - 5.1. Budget should reflect actual need for the trip.
  - 5.2. Any special cases not covered in the current Guidelines are subject to approval from the Vice Rector (Research).

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## Funding Guidelines for Research Assistantships

(Approved by the Rector on 17 December 2020)

### 1. Purpose

The *Funding Guidelines for Research Assistantships* apply to any PhD or master's students who receive financial support from their supervisors for performing duties related to research projects (except consultancy projects). The sources of funding include all internal and external sources recognized by the Research Services and Knowledge Transfer Office (RSKTO). For the purpose of this set of Guidelines, the financial support received by a PhD student or a master's student is known as "PhD Assistantship" or "Master's Assistantship".

### 2. Amount of PhD Assistantship and Master's Assistantship

#### 2.1

PhD Students	Maximum Support
Before approval of PhD candidacy	MOP12,500/month
After approval of PhD candidacy	MOP14,000/month

Master's Students	Maximum Support
	MOP8,000/month

2.2 The amount of stipend to be received by a student will be subject to the available research funding of his/her supervisor.

2.3 The total stipend that a student can receive in a calendar month must not exceed the maximum support amount, regardless of the source(s) of financial support involved in the same period. Otherwise, the exceeding amount of stipend shall not be remunerated.

2.4 Stipend for support period less than one month is provided on a pro rata basis.

2.5 Students will be eligible to receive the new ceiling of stipend (i.e., maximum MOP14,000 per month) starting from the subsequent semester upon approval of their PhD candidacy.

2.6 Benefits or rewards not in monetary form (e.g. meals, accommodations, etc.) granted to students in return for services that they provide on campus shall not be considered as a component of the PhD or master's assistantship as stipulated in these Guidelines.

2.7 The RSKTO and the Finance Office (FO) should be informed on any change in stipend arrangements at least one month before the change takes effect.

### 3. Duties of Assistantship Recipients

3.1 All research assistantship recipients are required to engage in duties related to research as assigned by his/her supervisor, ancillary teaching and/or student services.

3.2 In addition to research, every PhD assistantship recipient is required to engage in a maximum of 10 hours of ancillary teaching per week.

3.3 Considering that an assistantship recipient may have more than one appointment at UM, the number of hours stated above may be fully/partially waived, subject to the approval of the respective Dean/Director.



- 3.4 Satisfactory performance of such duties is one of the preconditions for the renewal of the research assistantships.

#### **4. Change of Supervisor and Suspension/Termination of Assistantship**

- 4.1 If change of supervisor occurs, the availability and the amount of Assistantship should be determined by the new supervisor. This arrangement is not applicable to cases where the change of supervisor is due to the unsatisfactory performance of the student, which includes but not limited to performance in study, and/or his or her duties as assistantship recipient stipulated in article 3 of the Guidelines, is found to be unsatisfactory, or when the student has violated any other UM regulations, rules and guidelines.
- 4.2 Research assistantships may be suspended or terminated by the supervisor when the performance of the student, which includes but not limited to performance in study, and/or his or her duties as assistantship recipient stipulated in article 3 of the Guidelines, is found to be unsatisfactory, or when the student has violated any other UM regulations, rules and guidelines. However, such decision must be well justified according to the relevant regulations, rules and guidelines of UM. Normally two weeks' notice in writing for suspension/termination should be given.
- 4.3 A research assistantship recipient may relinquish the offer with one month's advance notice in writing.
- 4.4 The suspension/termination of assistantship, or relinquishment of the assistantship by the recipient, does not release the recipient concerned from his or her duty to settle any outstanding fees owed to the UM.
- 4.5 The academic unit concerned should inform RSKTO and FO about any change in the recipient's status as referred to in this provision immediately.

#### **5. Duty and Role of Supervisors**

Supervisors should meet their PhD or master's students regularly, monitor their study progress, and treat them in a fair and equal way according to the relevant regulations, rules and guidelines of UM.

#### **6. Special Cases**

Any special cases not covered in the current Guidelines are subject to the endorsement from the Director of RSKTO and the approval from the Vice Rector (Research).

#### **7. Administration**

Research Assistantships are administered by RSKTO. For uncertain or ambiguous cases, discretion from RSKTO should be sought.

#### **8. Applicability**

The current Guidelines are applicable to all Research Assistantship recipients (except Research Assistantships for Consultancy Projects).

#### **9. Remark**

The Guidelines are subject to revisions by the UM. When revisions are made, assistantship recipients will be informed accordingly.

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## Funding Guidelines for Teaching Assistantships

(Approved by the Rector on 18 August 2022)

### 1. Purpose

The *Funding Guidelines for Teaching Assistantships* apply to all PhD and master's students who receive stipends for the teaching service that they provide to academic units. The stipend received by a teaching assistant (TA) is known as "Teaching Assistantship".

### 2. Eligibility

PhD and master's students with good academic performance are eligible to apply.

### 3. Amount and Duration

3.1

PhD Students	Maximum Support
Before approval of PhD candidacy	MOP12,500/month
After approval of PhD candidacy	MOP14,000/month

	Maximum Support
Master's Students	MOP8,000/month

3.2 The duration and amount of Teaching Assistantships are determined by the academic unit concerned.

3.3 The total stipend that a student can receive in a calendar month must not exceed the maximum support amount, regardless of the source(s) of financial support involved in the same period. Otherwise, the exceeding amount of stipend shall not be remunerated.

3.4 Monthly stipend for a service period of less than one month shall be provided on a pro rata basis.

3.5 Students will be eligible to receive the new ceiling of stipend (i.e., maximum MOP14,000 per month) starting from the subsequent semester upon approval of their PhD candidacy.

3.6 Benefits or rewards not in monetary form (e.g., meals, accommodations, etc.) granted to students in return for services that they provide on campus shall not be considered as a component of the Assistantships as stipulated in these Guidelines.

3.7 The Finance Office (FO) should be informed on any change in stipend arrangements.

### 4. Duties of Assistantship Recipients

4.1 Every TA is required to engage in academic activities which include ancillary teaching and/or administrative services as assigned by the academic unit concerned for 5 to 15 hours per week.

4.2 Satisfactory performance of such duties is one of the preconditions for the renewal of the Assistantships.

### 5. Suspension/Termination of Assistantships

5.1 A recipient may apply for suspension of Teaching Assistantship due to medical reasons, family emergency, deferral or other reasons with strong justifications. All applications are subject to the approval of Dean/Director of academic unit concerned.

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- 5.2 Teaching Assistantship may be terminated by the academic unit concerned when the academic performance or the performance of duties as an assistantship recipient is considered unsatisfactory, or when the student has seriously violated UM regulations, rules and guidelines. However, such decision must be well justified according to the relevant regulations, rules and guidelines of UM, and approved by the Dean/Director of academic unit concerned. A written notice for termination should be given at least two weeks in advance.
- 5.3 The academic unit concerned should inform FO of any change in the recipient's status as referred to in this provision as soon as possible.
- 6. Special Cases**  
Any special cases are subject to endorsement from the Deans/Directors of academic units concerned and approval from the Vice Rector (Academic Affairs).
- 7. Administration**  
Teaching Assistantships are administered by academic units and supervised by the Office of the Vice Rector (Academic Affairs).
- 8. Applicability**  
The current Guidelines are applicable to all recipients of Teaching Assistantships.
- 9. Remark**  
The Guidelines are subject to revisions by the UM. The recipients of Teaching Assistantships should check the website of the Graduate School for the most up-to-date information on Teaching Assistantships.

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# **Statistics of Registered Students for Academic Year 2024/2025**

## APPENDICES

# Statistics of Registered Students for Academic Year 2024/2025

(by headcount)

Programme	Academic unit	Non-incoming exchange students	Incoming exchange students	Total
Doctoral	FAH	220	6	226
	FBA	307	0	307
	FED	202	0	202
	FHS	487	2	489
	FLL	189	4	193
	FST	681	1	682
	FSS	288	0	288
	IAPME	167	4	171
	ICMS	279	6	285
Sub-total		2,820	23	2,843
Master	FAH	519	18	537
	FBA	624	3	627
	FED	420	2	422
	FHS	69	2	71
	FLL	497	19	516
	FST	931	1	932
	FSS	583	3	586
	IAPME	58	2	60
	ICMS	224	0	224
	ICI	534	0	534
	IME	183	1	184
Sub-total		4,642	51	4,693
Postgraduate Certificate/Diploma	FED	50	0	50
	FLL	29	0	29
Sub-total		79	0	79
Bachelor	FAH	1,037	77	1,114
	FBA	2,227	48	2,275
	FED	739	8	747
	FHS	333	10	343
	FLL	686	18	704
	FST	1,083	27	1,110
	FSS	1,621	48	1,669
Sub-total		7,726	236	7,962
Total		15,267	310	15,577

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# Staff List

(data as at July 2025)

APPENDICES / STAFF LIST

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# Staff List index

APPENDICES

# Staff List index

## A

Aaron CIECHANOVER	1038
Adrian Cheuk Hung LEI 李卓雄	1015
Agnes Iok Fong LAM 林玉鳳	1063,1073
Aifang CHENG 程愛芳	1036
Albert Yuk-keung IP 葉毓強	1021
Alex Sili ZHOU 周思力	1064
Alexandr SVETLICINII	1042
Alfred Seng Fat WONG 黃承發	1091
Alice Chong Kok FONG 馮鍾珽	28
Alice Ieng Wai HONG 洪盈惠	1028
Alice S. LEE	1008
Alice Si Man LEI 李思敏	1026
Amy Siu Ian SO 蘇小恩	896,1012,1016
Ana Luísa Varani LEAL	1005
Anabela Maria PINTO DE MIRANDA RODRIGUES	1045
Andrew Chan Chio LAO 劉振釗	1028
Andrew Chi-fai CHAN 陳志輝	1021
Andrew Jackson MOODY	1000,1002
Andriy MYACHYKOV 麥安舟	1086
Andy Chun Wai FAN 范進偉	26,894,1024
Angel On Kei TANG 鄧安琪	1076
Angela Sin Wa PANG 彭倩華	1106
Angela Wen-Yu CHANG 張文瑜	28
Angie Ieng Lai WONG 王英麗	1105
Angus Chi Chiu LAM 林智超	30
Angus Chi Ho CHU 朱智豪	1060,1061,1070
Anise Man Sze WU 胡文詩	1062
Anita CHAU 周佩貞	1104
Anna Pou Iu VONG 黃寶儀	1017,1075
Anna Wai San CHEANG 鄭慧珊	1034,1083,1100
Annie Hou Wan TENG 丁皓雲	1107
Annie Lai Meng CHAN 陳麗明	1107
Anthony CARTY	1045
Anthony Heng TANG 唐恒	1020
Anthony Ip Kin WONG 黃業堅	1014
António José RODRIGUES LEAL	1004
António PINTO MONTEIRO	1045
Antonio Vasconcelos de SALDANHA 薩安東	1001
Antony Kuok Fan Si TOU 司徒珞璠	26,31,1106
Atticus Paul SIMS	1004
Audrey Min-Chuan SUNG 宋明娟	1027
Augusto TEIXEIRA GARCIA	1046

---

## B

Barry Lee REYNOLDS 雷貝利	1024
Bea VERSCHRAEGEN	1045
Bei LI 李蓓	1036
Benjamin Ian WINOKUR	1006
Benjamin Kidder HODGES	28,1064,1075
Betty Wai Hong CHANG 曾偉紅	28
Billy Kar Wei NG 吳嘉偉	28
Billy Kee-long SO 蘇基朗	1044
Billy Tak Hoi LEUNG 梁德海	1104
Bing SHUI 稅兵	1042,1078
Bing WEI 魏冰	1024
Bingpu ZHOU 周冰樸	1050,1080
Binmeng CHEN 陳斌猛	1055,1080
Biyang HU 胡碧穎	1023
Bo JIANG 姜波	1065
Bo WEN 文博	1060,1063
Bob Yibo ZHANG 張一博	28,1055
Boby Ho-Hong CHING 程浩航	28,1024
Bolong LIU 劉伯龍	1067
Boyuan ZHAO 趙博遠	1066
Brenda Wing Han CHAN 陳詠嫻	1018
Brenda Yang ZHANG 張洋	1017
Brian Hok-Shing CHAN 陳學成	1002
Brian V. RUSK	1027
Bryan Chiew Siang HO 何秋祥	1064

## C

Cândida da Silva Antunes PIRES 李淑華	1041
Candy Miu Mei LEI 李妙媚	32,1106
Carla Alexandra SANTOS LOPES	1008
Carlos Jorge Ferreira SILVESTRE	22,1049
Carlos NORONHA	1016
Carol Kei WONG 汪淇	21,23,27,1103
Carolina Oi Lam UNG 吳靄琳	895,1037,1084,1101
Carry Ka Yee MAK 麥嘉怡	1021
Célia Filipa FERREIRA MATIAS	1043
Celia Sok Man LEI 李淑敏	29,1105
Chan Io SAM 沈振耀	1047
Changfeng GUI 桂長峰	1050
Changhuo XU 徐昌活	1038
Changpeng HUAN 鄒昌鵬	1003
Chanthika PORNPITAKPAN	1016
Chao Fong KOU SI TOU 高司徒秋芳	1029
Chao WANG 汪超	1042
Chaoqun LU 盧超群	1027
Chaoyang JIANG 蔣朝陽	22,25,894,1042
Charlie Byung Cheri SOHN	1014

Che Man CHENG 鄭智文	28,1050
Chen MING 明晨	1037
Cheng Hang LEONG 梁靜姮	29,1044
Cheng Meng CHONG 鍾昌明	1084,1101
Cheng Teng IP 葉靜婷	1056,1087
Chengcheng YOU 尤呈呈	1006
Chengli WANG 王成立	1066
Chengqing XI 席成清	1030
Chengwei HE 何承偉	1034,1083,1100
Chengxin PAN 潘成鑫	1063
Cheng-Yu TSAI 蔡承佑	1006
Cheng-Zhong XU 須成忠	21,23,24,25,1049,1071,1085,1097
Cheong Meng CHONG 鐘昌明	1036
Cheris Wing Chi CHOW 周詠芝	1015
Chi Chiu LAM 林智超	22,1049
Chi Hang CHAN 陳知行	28,1052,1089,1094
Chi Keong TANG 鄧志強	1047
Chi Man KUOK 郭梓雯	1009
Chi Man PUN 潘治文	1051
Chi Man VONG 黃志文	1054
Chi Meng CHEANG 鄭智明	1028
Chi Seak CHONG 鍾子石	1029
Chi Seng LAM 林智聲	26,1053,1088,1093
Chi Tat KWOK 郭志達	1049
Chi Wa U 余志樺	1090,1095
Chi Weng CHAN 陳志榮	1047
Chihua LI 李馳華	1036,1084,1101
Ching Man LAU 劉靖民	1069
Chio leong SIO 邵朝陽	1006
Chio Keong CHIN 錢釗強	30,1044
Cho Kee CHENG 鄭祖基	1026
Chon Chit TANG 鄧駿捷	1002
Chon Kit CHOU 曹俊傑	1036,1084,1101
Chon Lok LEI 李俊樂	1036
Chon Wa LAM 林俊華	1039
Chou Nei LON 倫藻妮	1029
Chris Koon Ho WONG 黃冠豪	1035
Christian MONTAG	1051,1085,1086
Christopher Allen FULTON	26
Christopher KELEN	1001
Chu Kwan LOK 駱柱君	1067
Chun Lian JIANG 江春蓮	1024
Chun Seng KAM 甘俊生	1024
Chun Wing CHEUNG 張振榮	1039
Chunhui LU 盧春暉	1009
Chunming WANG 王春明	1033,1083,1100,1102
Chuxia DENG 鄧初夏	21,23,25,893,895,898,1031,1032
Cindy Ka Ian LAM 林嘉欣	1065
Cindy Yuk Yee LAM 林鈺儀	1102
Claudia Jian XU 徐建	16,21,32

**D**

Daina CHIBA 千葉大奈	1062
Dalila Carmen de Sousa ARAUJO	1007
Damian John SHAW	1003
Dan WEI 魏丹	24,27,1041,1042
Daniel Louis Francois DUFOURNAUD	1005
Dário Moura VICENTE	1046
Davis Ka Chio FONG 馮家超	897,1013
Dayuan HAN 韓大元	1045
Defang OUYANG 歐陽德方	26,1035,1083,1100
Defeng LI 李德鳳	24,27,895,999,1001
Degui LI 李德櫃	22,24,1012,1013,1068,1071
Dennis Ping Cheng WANG 王秉正	29,1025,1075,1075
Derek Weng Hang CHAN 陳永亨	1021
Desmond Chee Shiong LAM 藍志雄	1014,1091
Desmond Chun Yip YUEN 袁振業	1017
Di WANG 王笛	1000,1078
Diane Ching-hui LU 呂靜慧	1028
Dick Meng Kai LAI 黎明佳	1105
Dimitra AMARANTIDOU 易冬蘭	1007
Dingqi YANG 楊丁奇	1055,1096
Dongbo ZHANG 張東波	1023,1024
Donghui WANG 王東暉	1066
Dongming WU 吳冬明	1006
Dongxue HAN 韓冬雪	1045
Dorothy Ching Ying SZE 施靜瑩	29
Duanhong CHEN 陳端洪	1045
Duncan Chung Hang LEUNG 梁重恒	30,1033,1082,1099
Duncan Jiancheng LIU 劉鍵程	1019

**E**

Edgar Bolun LIAO 廖波倫	1010
Eduarda Ka Vai VU 鄔嘉慧	29,1102
Edwin Chong Wing CHEUNG 張仲榮	22,29,1033
Edwin Ka Yiu KONG 江家耀	1036
Elaine I Teng SENG 盛綺婷	1076
Elaine Lai Han LEUNG 梁麗嫻	894,1085
Elaine Li YAN 晏麗	1017
Ellen Ying ZHANG 張穎	21,24,1000,1002
Elvo Kuai Long SOU 蘇桂龍	28,1104
Emily Pey-Tee OON 溫佩娣	897
Emily Ying WANG 王穎	29
Endong YANG 楊恩東	22,25,1020
Enqin LI 李恩琴	1040



Eric Rui YUAN 袁睿	1025
Ernest Kong Wah LAI 賴港華	1062
Esther Qianqian LIU 劉倩倩	1019

## F

Fai WONG 黃輝	1050
Fan LI 李帆	1003
Fangyuan CHEN 陳方圓	22,1012,1015
Fangyuan SHAO 邵方元	1038
Faye Feier CHEN 陳菲兒	1018
Fen HOU 侯芬	1053,1096
Feng BAI 白鋒	1014
Feng TANG 唐豐	1020
Feng WAN 萬峰	1050
Fiona Xi YANG 楊曦	1020
Francis SNYDER	1045
Francisco José BERNARDINO DA SILVA LEANDRO	22,897,1063
Frank Yang GONG 龔陽	22,1026
Frankie U Kei WONG 黃宇棋	22,1028
Fu CHEN 陳孚	1025
Fu GAO 高福	1038
Fung KWAN 關鋒	1065

## G

Gabriel ANTUNES DE ARAUJO	1002
Gang GONG 龔剛	898,1002
Gang LI 李剛	1034
Gaolong LIU 劉高龍	1041
Gaopeng XU 徐高鵬	1058,1098
Gary Ka Kei WONG 黃嘉基	1063
Gary WONG 黃值富	27,1033,1102
Gasper Chi Hong LEONG 梁梓康	1028
Ge GAO 高鵬	1009
Gennadiy BELOTSEKOVSKIY	1009
George Chun Wai CHENG 鄭振偉	22,25,1024
George Chuxiong WEI 魏楚雄	1002
Giorgio Erick SINEDINO DE ARAUJO 沈友友	1006
Glen TIMMERMANS	21,25,1004
Glenn James MCCARTNEY 默希濂	1016
Grace Kwai Chee CHAU 周桂慈	29,1103
Grace Qi FU 付琦	1012,1015
Grace Ying HO 何瑛	1018
Gregory CHENG 鄭彥銘	1038
Guanfang ZHAO 趙冠芳	1005
Guang Hui LUO 羅光輝	1038
Guanghui HU 胡光輝	1053,1097

---

Guangjian TU 涂廣建	1042
Guangyao WANG 王廣耀	1058
Guangzhen SUN 孫廣振	1063
Guichuan XING 邢貴川	28,1050,1079
Guiguo WANG 王貴國	1046
Guillermo Francisco Richard RUIZ STOVEL	1006
Guo Jie CAI 蔡國傑	1010,1028
Guobin CUI 崔國斌	1045
Guokai CHEN 陳國凱	31,1032
Guokang ER 鄂國康	1052
Guoqiang LI 李國強	1015
Guoqiang ZHAO 趙國強	1044
Guoxing SUN 孫國星	1054,1080
Gyeong Hun BAEG	1034

## H

Hai YANG 楊海	1066
Haifeng LI 李海峰	1053,1080
Haijun Shao 邵海軍	1057,1090,1095
Haitao YU 余海濤	1020
Haiwei SUN 孫海衛	1052
Haiyan WANG 王海燕	22,1063
Haiyan WU 伍海燕	1087
Handong SUN 孫漢東	24,27,1051,1079
Hang QI 齊航	1065
Hang YIN 尹航	1058
Hanmin ZHOU 周漢民	1046
Hanming SHEN 沈漢明	27,1031,1032
Hannah Wanhuan ZHOU 周萬歡	27
Hans-Georg MOELLER	27,1002
Hanyue LYU 呂翰嶽	1043
Hao HU 胡豪	1033,1082,1099
Hao ZHANG 張皓	30,1017
Haomin SONG 宋昊旻	1057,1080
Haoyun ZHANG 張浩云	1087
Hari VENKATESAN 何立慧	1004
He SONG 宋賀	1037,1084,1101
Helen Hong XU 徐鴻	1104
Helena Yan TAN 談琰	1107
Heng Man HO 何慶文	22,1043
Heng SUN 孫恆	1038
Henry Chun Kwok LEI 李振國	1015
Henry Hang Fai KWOK 郭珩輝	1031,1033
Hio Fong TONG 唐曉峰	1047
Hio leong CHE 謝曉陽	1067
Hio Wa MAK 麥曉華	1065
Hio WU 胡曉	1047
Hoi Ling PANG 彭海鈴	1006

---

Hoi Ying CHEN 陳海瑛	1003
Hoipan WONG 王海濱	22,1066
Hok Chio LAI 黎學昭	1024
Hong Cheng CHAU 周康政	1029
Hong Heng CHONG 鍾紅興	1038
Hong XU 徐鴻	21,25
Hongcai ZHANG 張洪財	1058,1098
Hongchao LIU 劉宏超	1057,1080
Hongchuan SHEN 沈鴻川	1020
Hongjie ZHANG 張紅杰	1035,1075
Hongquan PENG 彭洪泉	1039
Hongtao ZHOU 周洪濤	1002
Hongxun HUI 惠紅勛	1098,1056
Hongyong LIU 劉鴻勇	1003
Hongyu WANG 王紅宇	28,1063
Hongyuan JIA 賈鴻源	1056
Hou IAN 殷灝	26,1053,1080
Hou Keong WU 胡浩強	1030
Hsu-Min CHIANG 江旭敏	1029
Hua YU 余華	1035,1084,1101
Huabin SHI 施華斌	1057,1098
Huaiyu SHAO 邵懷宇	30,1054,1080
Huanle XU 徐歡樂	1058
Huanxing SU 蘇煥興	1033,1083,1100
Hugo Alexandre MARQUES TEIXEIRA	1009
Hugo Emanuel DE MIRANDA RODRIGUES DUARTE FONSECA	1044
Hui KONG 孔慧	1053,1097
Hui Min CHIA 謝慧敏	1027
Hui PAN 潘暉	23,25,26,29,1051,1079
Hui XU 徐慧	1063
Huiling HUANG 黃慧靈	1019
Huiquan ZHANG 張滙泉	1066
Hung Po LEONG 梁洪波	1029

# I

I Lei CHAN 陳依莉	1009
I Tak VONG 黃懿德	1030
Iat Meng WAN 溫日明	1059
Iek Man LEI 李奕雯	1056
Ieng Ha LOU 盧映霞	1047
Ieng Tak LEONG 梁應德	1053
Im Lan CHEONG 張艷蘭	1007
In Fat LO 羅言發	1005
Inácio Lanari, BÓ	1062
Indy Ka Lai CHENG 鄭嘉禮	1106
Io Chao CHAN 陳曉疇	1047
Io Cheng TONG 唐曉晴	21,23,25,896,1041,1042,1071
Io Kei KUONG 鄭耀基	29

Io Wa IAM 任耀華	1090,1095
Iok Ip VONG aliás Francisca VONG 黃玉葉	1047
Iris Lin YUAN 袁琳	1017
Isabel MOUSINHO DE FIGUEIREDO	1043
Isabel Siu Fong FU 傅小鳳	1018
Ivan Weng Hong LEI 李永康	29
Ivy Man Ieng LAO 劉曼盈	1106

## J

Jacky Fok Loi HONG 洪福來	1013
Jacky Yan LIN 林龔	1019
Janny May Yee LEUNG 梁美兒	1091
Jason Zezhong XIAO 蕭澤忠	1014
Javier Calero CUERVO	1015
Jean-Paul Lafayette DUQUETTE	1007
Jennifer Jie LI 李潔	1019
Jennifer Yuen Man LAI 黎婉雯	1015
Jeremy DE CHAVEZ	27,1003,1077
Jerome YEN 顏至宏	1051
Jet Lianjie SHU 舒連杰	1014
Ji YOU 由冀	1068
Jia CHEN 陳佳	1061
Jia YUAN 袁嘉	1017
Jiahong LU 路嘉宏	28,1035,1082,1083,1100
Jiahong SU 蘇嘉紅	1027
Jiajun LUO 羅家俊	1036
Jiaming CAO 曹家銘	1086
Jian ZHANG 張健	21,999,1000
Jianbing SHEN 沈建冰	893,1052,1085,1097
Jianbo WAN 萬建波	1033,1082,1083,1100
Jianbo ZHANG 張劍波	1008
Jiang SUN 孫江	999,1000
Jiangchao WU 吳江潮	1090,1095
Jianguang JI 紀建光	1033
Jianguo SHI 侍建國	1001
Jianhong LIU 劉建宏	894,1044
Jianhua XU 徐建華	1064
Jianrong SUN 孫建榮	1010
Jiantao ZHOU 周建濤	1052,1097,1103
Jianwei WANG 王建偉	1068
Jiaqing O 胡家慶	1063
Jiasheng ZHANG 張家盛	1066
Jiawei XU 徐佳唯	1058,1089,1094
Jie XU 徐杰	21,23,24,895,897,999,1001,1050
Jimmy Chi Ming LEE 李志明	1019
Jin HUANG 黃進	1045
Jinchao WEI 魏金超	1037,1084,1101
Jing SUN 孫瑾	1025

Jing SUN 孫璫	1028
Jing XIE 謝靜	22,25,1017
Jing YUAN 袁靜	1037,1084,1101
Jing ZHANG 張靜	896,1006
Jing ZHAO 趙靜	1036,1084,1101
Jinghua LI 李菁華	1034
Jingrui XU 許璟睿	1020
Jingwei ZHANG 張璟瑋	22,1007
Jingzhen XIE 謝靜珍	1006
Jinhua JIA 賈晉華	1010
Jinjian LU 陸金健	1033,1083,1100
Jin-Jy SHIEH 謝金枝	1026
Jinrong LIU 劉錦榮	1057
Jiying JIANG 蔣佶穎	1065
Ji-young CHOI 崔智英	1067
Joanne Sow Hup CHAN	1014
João LORETO ILHÃO MOREIRA	1043
João Manuel PIRES DA SILVA E ALMEIDA VELOSO	1000,1002
Joaquim Io Kei KUONG 鄺耀基	999,1005
Joel OLIVEIRA REIS 河溪久	1057
Joey Chi Ngai LAO 柳智毅	25,1104
John Michael Franklin WHITTLE	1004
Joong Sup SHIM 沈仲燮	1035
Jorge BACELAR GOUVEIA	1046
José Eduardo ISAAC SOARES DUARTE	1047
José Fernando Lino PASCOAL	1008
Joseph Adea SY-CHANGCO	1020
Joseph Paul DEXTER	1055,1086
Joshua LEE	1008
Joshua Parr EHRlich 夜華	1003
Juan CHEN 陳娟	1064
Juan ZHANG 張娟	894,1025
Juha SILVANTO	1086
Júlio Reis JATOBÁ	1005,1007
Jumin HUANG 黃居敏	1038
Jun LI 李軍	999,1000
Jun XU 徐峻	1061,1062
Jun YIN 殷俊	1055,1089,1094
Jun YU 余俊	21,23,25,1012,1013,1068
Jung Woo PARK 朴政友	1037
Junwen ZHONG 鍾俊文	1059
Junyi LYU 呂琚映	1065

## K

Ka Chon LAM 林嘉俊	1029
Ka Fai UN 阮家輝	1089,1094,1058
Ka Ian CHEANG 鄭家欣	1067
Ka Ian LAM 林嘉欣	26
Ka Ip LEONG 梁嘉業	29,1105

Ka Lai LAM 林嘉麗	1067
Ka Lon CHAN 陳嘉麟	1009
Ka Meng LEI 李家明	1056,1089,1094
Ka Wai FUNG 馮家維	1076
Kaeling TAN 陳凱靈	1037
Kai Chong SAM 沈繼忠	1029
Kai Meng MOK 莫啓明	16,21,23,27,32,1051
Kai MIAO 苗凱	1036
Kai Seng LAI 黎啟盛	1039
Kaijian TANG 湯開建	1001
Kam Chon CHOU 曹錦俊	1047
Kam Hou VAT 屈鑑濠	1059
Kam Weng TAM 譚錦榮	895,1052
Kao SI 司考	1016
Kar Wei NG 吳嘉偉	1053,1080
Kathy Qian LUO 羅茜	1033,1092
Katrina Wai Kam CHEONG 張惠琴	1105
Katrine Ka Ki WONG 王嘉祺	21,25,27,28,30,1004,1102
Katy Ieong Cheng HO WEATHERLY 何揚晴	1027
Ke LI 李可	1044
Kei Kei NG 吳奇琦	1043,1075
Kelvin Ka-Veng YUEN 阮家榮	1051,1097
Ken Kam Weng TAM 譚錦榮	22
Keng Hei VONG 黃景禧	1048
Keng Pan TANG 鄧景濱	1001
Keng Weng LAO 劉景榮	1056,1098
Keong WONG 王強	1039
Kerrin Felix BURNELL	1007
Kevin Michael MAHER	1008
Kim Oi Mei KUOK 郭愛媚	1021
Kin Ho LO 羅健豪	1050
Kin Hong IP 葉健雄	1098
Kin long CHAN 陳建勇	1038
Kin Kei LEE 李建基	1044
Kin Sun CHAN 陳建新	1064
Kin Yip TAM 譚建業	1035
Kit Ian KOU 高潔欣	1053
Koon Shing LAM 林冠成	1029
Kraivin CHINTAKANANDA	26
Kraivin Paripont CHINTAKANANDA	1018
Kuai Long SOU 蘇桂龍	1068
Kuai Wa IP 葉貴華	1029
Kumiko KIMURA 木村久美子	1008
Kun Pang KOU 高冠鵬	22,24,25,26,1053
Kunru SONG 宋坤儒	1027
Kuok Fai CHAO 周國暉	1076
Kuzma STRELNIKOV	1086
Kwok Cheung CHEUNG 張國祥	897,1023,1092
Kwok Kit TONG 唐國傑	1063
Kwok Kwong TANG 鄧國光	1001

Kwun Nam HUI 許冠南

1053,1080

## L

Lai Han LEUNG 梁麗嫻	1033
Lai Seong TANG 鄧麗湘	1029
LAM Kam Seng Peter 林金城	15,17,19
Lam Lam CHU 朱琳琳	1044
Lam TENG 林定	1059
Lampo LEONG 梁藍波	21,893,1000,1000
Lancy Vai Iun MAC 麥慧妍	1020
Lantz Chi Chong WU 胡梓聰	1028
Lap Mou TAM 譚立武	1052
Lawrence Chang Yuan CHOO	1062
Lawrence Hoc Nang FONG 馮學能	1012,1015
Lei CHANG 張雷	1061
Lei ZHU 祝雷	22,1051,1097
Lele SHA 沙樂樂	1026
Leo Tsz On LEE 李子安	22,25,30,1034
Leona Shao Zhi LI 李少知	1019
Leong Hou U 余亮豪	26,894
LEUNG Kai Chun Chris 梁佳俊	18,20
Letty Yan Yee KWAN 關欣儀	22,1065,1077
Lewis Hon Keung TAM 譚漢強	1017
Li DU 杜立	1043
Li LI 栗力	1056,1098
Li LUO 羅力	1057
Li MIAO 苗莉	22,1013,1014
Li WANG 王麗	22,1037
Li XIAO 肖嶸	1017
Lian XUE 薛蓮	1009
Liang GAO 高亮	1055,1098
Lianghuo FAN 范良火	21,23,25,1023,1023
Lida Ling Ling ZHANG 張玲玲	1017
Lidia SUJADI	1010
Ligen LIN 林理根	1032,1033,1083,1099
Lihu XU 徐禮虎	1054
Lijia LIN 林立甲	30,1026
Lijun DI 狄利俊	1031,1034
Liming ZHANG 張立明	1059
Linda Lai Fan CHAN 陳麗芬	1103
Linda Xiaoyun CHEN 陳曉雲	1015
Linlin FAN 范林林	1064
Liqiang ZHOU 周立強	1038
Lisheng CHEN 陳立勝	1000
Liu YANG 楊柳	1092
Liwen ZHANG 張麗文	1021
Lixin YANG 楊立新	1046
Long CHEN 陳龍	1052

---

Lu Ma 馬璐	1010
Lucy Xiaowan LIN 林曉婉	22,27,1015
Luis Gonçalo GOMES DE ARAÚJO VASCONCELOS PESSANHA	1047
Luís Tiago ALVES PIRES	1007
Lulu LIU 劉露露	1065
Lung Yam WAN 溫龍欽	1059
Luping YU 俞路平	1020
Luyang GUO 郭露陽	1026

## M

Maggie Pui Man HOI 許貝文	27,28,1034,1083,1100
Maggie Xiaoqing FU 傅曉青	1013
Man Chong FONG 馮文莊	1046
Man Chung WONG 黃民聰	1052,1091
Man Hoi LOK 陸萬海	1053
Man Ieng MAI 米萬英	1046
Man Kay LAW 羅文基	24,1051,1088,1093
Man Teng IONG 翁文挺	1044
Man XU 徐曼	1066
Man Yin CHIU 趙敏言	1003
Mang I VAI 韋孟宇	1054
Manuel Antonio NORONHA	1076
Manuel Marcelino ESCOVAR TRIGO 尹思哲	894,1042
Manuel PORTO	1045
Maria Antónia ESPADINHA	1001
Mário Rui Lima de Oliveira Pinharanda NUNES	898,1008
Mark Hwai Ping WONG	1008
Martin Mathew MONTGOMERY	1001
Mary Lai Ping CHAI 柴麗萍	1012,1014
Matilda Ming Wai WONG 黃明蕙	1025
Matthew Ian GIBSON	1003
Matthew Patrick WALLACE	1004
Matthew Ting Chi LIU 劉丁己	21,893,1014,1072,25
Matthew William LAMBERT	1009
Mauro BUSSANI	1045
Meifang ZHANG 張美芳	1002
Meiwan CHEN 陳美婉	1032,1082,1099
Mek WONG 王覓	1068
Meng U IEONG 楊鳴宇	1064
Mengdi CHEN 陳夢笛	1025
Mi PAN 潘覓	1057
Michael C LICHTENSTEIN	1008
Michael King Man HUI 許敬文	16,21,23,24,27,28,32,1013,1070
Michael Mei-Jiun WU 吳梅君	1027
Michael Thomas GILMORE	1009
Michelle Mingyao SUN 孫名謠	1027
Michiel SPAPE	1054,1086
Miguel Junior GOMES DA COSTA	22,1059
Miho ANDO 安藤美保	1007

---



Ming Ming ZHOU 周明明	22,25
Ming YAN 閻鳴	1064
Minghao WANG 王明浩	1058,1098
Minghua LIU 劉明華	1015
Minglei ZHANG 張明磊	1059,1089,1094
Mingli ZHENG 鄭明禮	1064
Mingming ZHOU 周明明	24,27,1023,1024
Mingqiang GUO 郭銘強	28,1055,1089,1094
Mingxuan LIU 劉銘璇	1065
Mingyu WANG 王銘宇	1004
Mo HUANG 黃沫	1056,1089,1094
Mond Chon Mio WONG 王俊苗	1107
Moody Yuko MASTUMOTO 松本雄子	1021
Morris Ming LIU 劉明	27,1012,1016
Mun On WONG 黃滿安	1058
Muruga Perumal RAMASWAMY 白祿孟	26

## N

Nan ZHOU 周楠	1025
Nan ZHU 朱楠	1067
Nanqin LIU 劉南欽	1016
Nan-Shan ZHONG 鍾南山	1038
Natalia Nai-Hua LIU 劉乃華	1026
Nathan Ching-Yin KWAN 關正衍	1005
Neng Ian CHEANG 鄭寧人	893,1007
Nevia DOLCINI 杜雪雅	1003
Nga Ut LEONG, Joan 梁雅月	1008
Nicholas Michael PARKER-GROOM	21,1002
Ningyi DAI 戴寧怡	1049,1096
Ningyi SHAO 邵寧一	26,1035
Niping YAN 嚴旒萍	1006
Nuno Fernando Correia Neves PEREIRA	1047

## P

Pak Kin WONG 王百鍵	21,23,24,25,27,1052,1074
Patrick Chang Boon LEE 李壯文	1015
Patrick Kuok Kun CHU 朱國權	1018
Patrick Wai Hong HO 何偉雄	1062
Paul Chap Chong PANG 彭執中	21,28,29,29,30,31,1103
Paula Cristina Figueiredo de CAMPOS	1007
Paulo Jorge TAVARES CANELAS DE CASTRO	22,1042
Pedro CHEONG 張子康	1055
Peggy Keang Ieng VONG 黃鏡英	1023,1025
Peggy Pui Kei LAU 劉沛棋	1028
Pei KUANG 曠裴	1062
Pei Yin HSIEH 謝蓓瑩	1029

---

Peilian CHI 池培蓮	1062
Peng LI 李鵬	24,898,1033,1082,1099
Peng Un MAK 麥炳源	1057,1076
Peng WANG 汪鵬	1058
Peng WANG 王鵬	1035
Pengbin LI 李鵬斌	1039
Pengyang WANG 汪澎洋	1058,1098
Pengzhan SUN 孫鵬展	1057,1080
Perumal RAMASWAMY 白祿孟	1042
Peter David MATHEWS	999,1002
Peter Mao Keong LAO 劉茂強	1105
Peter Ping ZHANG 張平	1055
Pey-Tee OON 溫佩娣	1024
Philip Kin Fun LAW 羅建勛	1019
Phoebe Sau Kun CHEANG 鄭秀娟	29,1103
Phoenix Hio Hei CHAN 陳曉希	1077
Phuong Anh LÊ	1010
Ping LI 李憑	1001
Ping Man WONG 黃炳文	1028
Ping SHEN 申平	1057,1098
Pingxue ZOU 鄒平學	1046
Pou Seong SIT 薛寶嫦	1024
Priscilla Pui Sun TAM 譚珮璇	1017
Pui In MAK 麥沛然	23,25,1051,1088,1093

## Q

Qi ZHANG 張琦	1059
Qi ZHAO 趙琦	1036
Qian WANG 王茜	1020
Qiang CHEN 陳強	1036
Qihan CHEN 陳奇涵	1036
Qin XIE 謝琴	1025
Qing LI 李清	1056,1080
Qingbiao LI 李慶標	1056
Qinghe LIU 劉慶和	1010
Qingjie WANG 王慶節	1001
Qingsong XU 徐青松	1052
Qingwen ZHANG 張慶文	1035,1084,1101
Qingzhen DENG 鄧慶真	1009
Qingzhou MA 馬慶洲	1008,1078
Qiongyan ZHUO 卓琮妍	1008
Qiwen XU 徐啟文	1058
Quancai SUN 孫全才	1037

## R

Rachel Xiaorong MA 馬笑蓉	28,1016
------------------------	---------

---

Raimundo Enedino dos SANTOS	1006
Raquel ABI-SAMARA MAGALHÃES	1005
Raymond Chi Ho LOI 雷智豪	22,24,27,1014
Raymond Fei Loi LAI 黎飛雷	22,26,1067
Raymond Kwok Keung WONG 王國強	1104
Rebecca Wun Lei LAO 劉煥莉	1021
Regina Kan Kan CHAN 陳勤勤	1025
Ren SHEN 沈韜	1057,1089,1094
Renhe XU 徐仁和	24,1031,1032
Ricardo Chi Sen SIU 蕭志成	1016
Ricardo Franco RIBEIRO	1009
Ricardo MOUTINHO	28,1003,1068
Richard DENNIS FITZGERALD	22,24,27,1060,1061
Richard Weixing HU 胡偉星	21,23,25,896,1060,1061,1070
Rico Long Wai LAM 林朗為	21,22,23,25,27,28,29,31,1014,1102
Rihui LI 李日暉	1057,1087
Rob LAW 羅振雄	1013,1070,1070,1071
Robert David SMITH	1037
Roberval TEIXEIRA E SILVA	26,1006
Robin Chi Hang CHARK 翟智恆	1014
Rory Edmund O'NEILL	1005
Rose Neng LAI 黎寧	21,23,25,1013,1075
Rostam NEUWIRTH	28,1041
Ru YAN 燕茹	898,1033,1083,1100
Rubin HAO 郝如賓	1018
Ruey-Song HUANG 黃瑞松	1056,1086
Rui Manuel Esteves da SILVA	1009
Rui Paulo da Silva MARTINS 馬許願	16,21,21,23,27,32,1050,1088,1093
Rui Pedro RIBEIRO MARQUES	1004
Ruibing WANG 王瑞兵	1033,1083,1100
Rujia WEN 溫如嘉	1010
Ruiyu XIE 謝瑞瑜	1032,1035
Runhua WANG 王潤華	1043
Ruohui ZHAO 趙若輝	1064
Ryan Leong Hou U 余亮豪	1054,1085,1097

## S

Sai Chuen Stanley HUI 許世全	1024
Sai Weng SIN 冼世榮	24,27,1054,1088,1088,1093,1093
Sam Ieng Man NG 伍英文	1067
Sam Kee CHENG 鄭琛奇	1067
Sancia Wai San WAN 溫慧珊	1076
Sara Goncalves dos SANTOS	1006
Sara Margarida RUANO GIL	1010
Sara MIGLIORINI	1043
Sau Wah NG 吳秀華	1003
Seak Weng VONG 黃錫榮	25,1052
Sean William GRANT	1007
Seng Fat WONG 黃承發	1010,1054

Seng Kin LAO 劉承堅	1059
Seng Peng MOK 莫昇萍	29,1051
Shan WANG 王珊	1004
Shanglyu, DENG 鄧尚律	1064
Shaodan MA 馬少丹	1051,1096
Shaoping LI 李紹平	898,1032,1082,1099
Shaoyang LIN 林少陽	1001,1078
Shaoyi ZHANG 張少一	1037,1084,1101
Shen LAI 賴岫	1056,1080
Shen ZHAO 趙琿	1018
Shengpeng WANG 王勝鵬	898,1035,1084,1100
Sheyla Schuvartz ZANDONAI	1006
Shi CHEN 陳石	1052,1079
Shih-Diing LIU 劉世鼎	1062
Shih-Ya KUO 郭世雅	1062
Shing On LEUNG 梁成安	29
Shixian YAO 姚時賢	1040
Shoutong ZHU 朱壽桐	893,1002
Shu Fai CHEUNG 張樹輝	1062
Shu KONG 孔庶	22
Shu KONG 孔庶	1056
Shu Ming TAM 譚樹明	1059
Shuaishuai GONG 宮帥帥	1018
Shuang Peng WANG 王雙鵬	1054,1080
Shuangchen YU 于雙辰	1020
Shulin YU 于書林	1023,1025
Shuwen ZHANG 張舒雯	1066
Sienho YEE 易顯河	1046
Siew Huat KONG 江紹發	1015
Sihao WANG 王思豪	1004
Sik Chung TAM 譚錫忠	1054,1092
Simon lok Kuan WU 胡玉均	1021
Simon James FONG 方正天	1052
Simon Man Shing SO 蘇文成	1017
Sin Chi KUOK 敦善知	1056,1098
Sin I MA, Miranda 馬倩兒	1008
Sio Hang PUN 潘少恆	30,1053,1089,1094
Sio Heng AO 區少卿	1007
Sio Kei SOU 蘇兆基	1047
Sio Un TAI 戴兆源	1105
Siu Kwai YEUNG 楊兆貴	1011,1025
Siu Long LEI 李兆隆	1053
Siu Ming CHOI 蔡紹明	29,1026
Siyau LIU 劉思佑	1008
Siyuan MA 馬思源	1065
Soey Sut Ieng LEI 李雪瑩	1019
Soi Cheong WONG 王瑞璋	1030
Sok Hei VONG 黃淑禧	1048
Songnan QU 曲松楠	1052,1079
Songqing LI, 勵松青	1003

Spencer De LI 李德	1061
Stanley Kuok Ieng SEAK 石國英	1106
Stanley Sai Chuen HUI 許世全	1091
Stella Ieng SAM 沈鷹	1021
Stella Xing LIU 劉星	1020
Stephanie Sao Lai IO 姚秀麗	26,1103
Steven D, MORAD	1057
Steven Xu ZHANG 張旭	29,1017
Sumiko ITO	22,1007
Susan Jinjuan REN 任錦娟	1016
Suzana Va Ian SOU 蘇樺茵	1067
Sze Wai IAM 任思維	1029

## T

Tai Ip CHAN 陳泰業	1039
Tak Wing NGO 吳德榮	1062
Tao LI 李桃	1068
Tao LI 李韜	1009
Tao TANG 湯濤	1028
Tat Ming SZE 施達明	1025
Teng Pio IAU 邱庭彪	1041,1042
Terence Chuen Wai POON 潘全威	1035
Teresa CHU 朱善欣	1018
Teresa LANCERY G ALBUQUERQUE E SOUSA ROBALO	1043
Teresa Sou Kuan VONG 黃素君	1025
Teresa Sze Lui LAM 林思磊	1008
Theresa Van Kam CHIANG 鄭蘊琴	22,1021
Tianhong FU 傅天虹	1010
Tianji CAI 蔡天驥	22,24,25,27,896,899,1060,1061,1070
Tianshu ZHU 朱天舒	1005
Tianwei HAO 郝天偉	1053
Tianyou HU 胡天佑	1018
Tien Tsung LEE 李天宗	22,1061
Tien-Ping HSIANG 向天屏	1026
Tieyuan GUO 郭鐵元	1062
Timothy Alan SIMPSON	1063,1077
Ting XIE 解亭	1039
Tingting QUE 關婷婷	1016
Todd JACKSON	1061
Todd Lyle SANDEL	1063
Tongxi LIU 劉桐汐	1026
Tony Kin Meng SAM 岑健明	1020
Tony Tienyuan GUO 郭鐵元	1077
Tony Zhenjiang QIN 秦振江	1016
Tsz Tan LAU 劉子丹	1065
Tzu-Ming LIU 劉子銘	27,1035

---

## U

Uros TODOROVIC	1004
----------------	------

## V

Vai Va VONG 王偉華	1047
Valentino Anok Melo CRISTINO	22,1055
Valter SERGO	1039
Vanessa Sio Tan SI TOU 司徒小丹	1021
Victoria Lai Cheng LEI 李麗青	28,30,999,1003,1075
Victoria S. HARRISON 何瑞芬	1002
Vítor Miguel DUARTE SILVA	1007
Vivian Felicio CHAPLIN	1007
Vivian Yi JIANG 蔣怡	1076
Vivien Yafan WANG 王雅凡	1035
Vivienne Yick Ku TAO 涂憶劬	1066

## W

Wa Kam CHANG 曾華鑫	1036
Wa KONG 江華	1043
Wai Chung LI 李慧中	1028
Wai Fong TOU 杜慧芳	1046
Wai Kei WONG 黃偉棋	1069
Wai Kin LOK 駱偉建	1044
Wai Kuok CHU 朱偉國	1039
Wai Kuong CHAU 周偉光	1068
Wai Kwok LO 盧偉國	894
Wai Man LEONG 梁偉民	1029
Wai Meng QUACH 郭偉明	1054
Wai Neng HO 何偉寧	1047
Wai Po CHEUNG 張偉保	1029
Wai SONG 宋偉	1040
Wai Wa CHOI 蔡偉華	1052
Wakam CHANG 曾華鑫	28
Walter Heung Chin HUI 許向前	1028
Wang Lap WONG 黃靈瑩	1010
Wangji YAN 顏王吉	1054,1096
Wanhuan ZHOU 周萬歡	22,1049,1097
Water Soi Po WONG 黃水波	29,1028
Wei GE 葛偉	16,21,23,24,27,32,896,1032,1079
Wei Han YU 于維翰	1089,1094
Wei Jian HOU 侯偉堅	1039
Wei PAN 潘維	897,1061
Wei SHI 史唯	1063
Wei WANG 王薇	1046
Wei Wen CHEN 陳薇文	1024
Weicong LYU 呂偉聰	1026

Weihan YU 于維翰	1058
Weijie REN 任衛杰	1009
Weiqing SONG 宋衛清	1063
Wei-Rong CHEN 陳威戎	1003
Weiwei LIU 劉蔚蔚	1037
Weiwen YIN 尹偉文	1066
Wen YANG 楊文	1055
Weng Fai IP 葉穎暉	1056
Weng Fat LAI 黎榮發	1029
Weng Fong AO IEONG 歐陽永鋒	1069
Weng Hong SIO 蕭詠康	1054,1080
Weng Ian CHE 謝詠茵	1037
Weng Kuan CHOI 蔡泳君	1009
Wenhua ZHENG 鄭文華	22,24,1034
Wenjiang YANG 楊文江	999,1004
Wenjing KANG 康文津	1013,1071
Wenli ZHU 朱文立	1039
Wenliang ZENG 曾文良	1090,1095
Wenyang ZHANG 張文揚	22,1013
Wen-Yu CHANG 張文瑜	1062
William Chong Hang CHAO 周昶行	1034
Winnie Un Fong KUAN 關婉芳	1021
Winson Seng Fo CHEANG 鄭成火	1106

## X

Xian WANG, Vincent 王憲	1004
Xianfan DING 丁肖凡	1036
Xiangning WU 吳湘寧	1063
Xianzhong SUN 孫憲忠	1045
Xiao Qing JIN 金小慶	1051
Xiaobo ZHAI 翟小波	25,27,1043
Xiaobo ZHOU 周笑波	1049,1097
Xiao-Chuan CAI 蔡小川	24,27,893,1049
Xiaochuan WENG 翁小川	1042
Xiaoding FAN 范笑鼎	1044
Xiaofan DING 丁肖凡	22,25
Xiaofei ZHANG 張曉非	1008
Xiaofeng WANG 王小楓	1004
Xiaojia CHEN 陳肖家	1034,1083,1100
Xiaoling XU 徐曉玲	1039
Xiaoqin LI 李小勤	1065
Xiaotian ZHANG 張曉天	1027
Xiaowei TANG 唐小為	1027
Xiaowei WU 吳曉偉	1058,1098
Xiaowen MAO 毛曉雯	26,1036,1084,1101
Xiaoxi HE 何曉溪	1055
Xin CHEN 陳新	21,23,24,25,1032,1082,1099

---

Xin GUO 郭歆	1026
Xin LIN 林鑫	1026
Xin LIU 劉昕	1016
Xin MA 馬鑫	1065
Xingzhong YU 於興中	21,23,897,1041,1078
Xinmin MA 馬新民	1046
Xinrong YANG 楊新榮	1025
Xinshu ZHAO 趙心樹	896,1061
Xiufeng LIU 柳秀峰	22,24,27,1023
Xiuping CHEN 陳修平	1032,1082,1099
Xu YANG 楊煦	1005
Xuanjun ZHANG 張宣軍	1031,1034
Xue Bin XIE 謝學斌	1039
XuHua SUN 孫旭花	1027
Xun CHI 遲迅	1002

## Y

Yabing CAO 曹亞兵	1039
Yain Whar SI 池英華	1054
Yamin HU 胡亞敏	1010
Yan LU 路延	1053
Yan SU 粟燕	1054
Yan WANG 王燕	25,1027
Yan ZHANG 張彥	1000,1001
Yan ZHU 諸嫣	26,1055,1088,1093
Yang JIANG 江洋	1056,1089,1094
Yang, ZU 祖楊	1064
Yaning QI 齊亞寧	1076
Yanping LIN 林燕萍	1045
Yanwei JIA 賈艷偉	29,1053,1089,1094
Yatao PENG 彭亞濤	1057,1089,1094
Yating YU 喻雅婷	1067
Ye WANG 王也	1058
Yee Tui SZE 施議對	1001
Yehuda Gerard ASSARAF	1038
Yeneng DAI 戴葉能	1038
Yi DING 丁一	22,1018
Yi LI 李毅	1063
Yibai YANG 楊毅柏	29,30,1060,1064
Yicong ZHOU 周怡聰	1052
Yifan JIAO 焦一凡	1019
Yifeng SUN 孫藝風	1000
Yi-feng TING 丁懿芬	1066
Yijiang ZHONG 鐘以江	1005
Yilin WANG 王藝琳	22,24,1043
Ying BIAN 卞鷹	1034,1083,1100
Ying JIANG 姜穎	1056
Ying LI 李穎	1065

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Ying WANG 王穎	1035,1084,1101
Ying ZHENG 鄭穎	1031,1034,1083,1100
Yingpeng ZHU 朱英朋	1021
Yingzhen JIANG 江穎臻	1019
Yinning ZHOU 周胤寧	1059,1081
Yiqing LI 李伊晴	1005
Yiwa JIANG 蔣依娃	28,1044
Yizhe JIANG 姜一哲	1026
Yong HUANG 黃勇	1045
Yonghong WU 吳永紅	1060,1062
Yonghua SONG 宋永華	16,21,23,24,26,32,1050,1096
Yonghua ZHAO 趙永華	898,1036,1084,1086,1101
Yongjie LI 黎永杰	1050
Yongqing CAI 蔡永青	1055,1079
Youhai SUN 孫佑海	1045
Yu Ming TANG 鄧宇明	1059,1076
Yu WANG 王禹	1042
Yuan WANG 王苑	1058,1089,1094
Yuan WU 吳遠	1054,1097
Yuanjia HU 胡元佳	895,1032,1033,1082,1099
Yuansi HOU 侯遠思	1015
Yubo TAO 陶宇博	1066
Yudong WANG 王玉冬	1001
Yue LI 李越	1035,1083,1100
Yue ZHANG 張月	22,25,1005
Yufan HAO 郝雨凡	1067
Yuhang XU 徐宇航	1006
Yuki Un Keng TAM 譚婉琮	1106
Yulin SHAO 邵郁林	1056,1057
Yulin YUAN 袁毓林	999,1000
Yunlu DAI 代雲路	1034
Yun-Tung LAU 劉潤東	1051,1091
Yuqi SUN 孫語崎	1004
Yut Ching KAN 簡月清	1044
Yutao XIANG 項玉濤	1031,1032,1068
Yuxi XIE 謝雨希	1066
Yuzhe LI 李羽喆	1005

## Z

Zaifu YANG 楊在福	1061
Ze HONG 洪澤	1064,1068
Zexun ZHANG 張澤琬	1010
Zhangfeng ZHONG 鍾章鋒	1037,1084,1101
Zhaotong LIAN 練肇通	1014
Zhaowei KONG 孔兆偉	22,27,1024
Zhe LI 李哲	31,1041,1042
Zhe MA 馬哲	1043

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Zhedong ZHENG 鄭哲東	1059
Zhen YUAN 袁振	1034,1085,1085,893
Zhengdong GAN 甘正東	1024
Zhengfeng LU 盧正烽	1040
Zhenghai TANG 唐正海	1037
Zhenning LI 李振寧	1057,1096
Zhi LIU 劉志	1051
Zhi Sheng WANG 王志勝	1027
Zhicheng MAO 毛志成	1027
Zhidong HAO 郝志東	1067
Zhiguo GONG 鞏志國	1049,1097
Zhimin LIN 林至敏	1068
Zhixiang ZHANG 張志翔	1059
Zhixin YANG 楊志新	1055,1097
Zhiyuan YAN 閻智源	1058,1089,1094
Zhong CHEN 陳忠	897,1003
Zhongya CAI 蔡忠亞	1055,1098
Zhuo QIAO 喬卓	1016
Zikang TANG 湯子康	1050,1079
Zuoer CHEN 陳佐洱	1045

# Campus Map



## EAST 東區

- E1** University Gallery  
大學展館
- E2** Wu Yee Sun Library  
伍宜孫圖書館  
Museum of Art  
藝術博物館
- E3** BOC Centennial Building  
中銀百年紀念大樓  
Centre for Continuing Education  
持續進修中心
- E4** Anthony Lau Building  
劉少榮樓
- E5-E7** Central Teaching Building  
中央教學樓
- E6** Centre for Teaching and Learning Enhancement  
教與學優化中心
- E11** Faculty of Science and Technology  
科技學院
- E12** Faculty of Health Sciences  
健康科學學院  
Honours College  
榮譽學院
- E21A** Faculty of Arts and Humanities  
人文學院
- E21B** Faculty of Social Sciences  
社會科學學院
- E22** Asia-Pacific Academy of Economics and Management  
亞太經濟與管理研究所
- E22** Faculty of Business Administration  
工商管理學院
- E31** Student Activity Centre  
學生活動中心  
Student Affairs Office  
學生事務部
- E32** Faculty of Law  
法學院
- E33** Faculty of Education  
教育學院  
Cultural Building  
崇文樓  
Centre for Arts and Design  
藝術設計中心  
Centre for Chinese History and Culture  
中國歷史文化中心
- E34** Centre for Macau Studies  
澳門研究中心  
Chinese-Portuguese Bilingual Teaching and Training Centre  
中葡雙語教學暨培訓中心  
Confucius Institute  
孔子學院  
Institute of Advanced Studies in Humanities and Social Sciences  
人文社科高等研究院

## WEST 西區

- W11** Moon Chun Memorial College  
滿珍紀念書院
- W12** Choi Kai Yau College  
蔡繼有書院
- W13** Stanley Ho East Asia College  
何鴻燊東亞書院
- W14** Henry Fok Pearl Jubilee College  
霍英東珍珠書院
- W21** Chao Kuang Piu College  
曹光彪書院
- W22** Lui Che Woo College  
呂志和書院
- W23** Cheng Yu Tung College  
鄭裕彤書院
- W31-W32** Postgraduate Houses  
研究生宿舍
- W33** Ma Man Kei and Lo Pak Sam College  
馬萬祺羅柏心書院
- W34** Cheong Kun Lun College  
張鑑倫書院



## Legend 圖例

- P** Car Park  
停車場
- Car Park Entrance**  
停車場入口
- Customs & Police Building**  
海關及治安警察局
- Medical Centre**  
醫療中心
- Bank**  
銀行
- Fire Station**  
消防局
- Restaurant/Café**  
餐廳/咖啡館
- ATM**  
自動提款機
- Post Office**  
郵政局
- Entrance/Exit**  
行人進出出口
- Bus Stop**  
巴士站
- Nursery**  
托兒所
- Supermarket / Convenience Store**  
超級市場/便利店
- Bookshop**  
書店 (也售賣澳門紀念品)

## NORTH 北區

- N1** UM Guest House  
翠賢樓
- N2** University Hall  
大學會堂  
Administration Building  
行政樓  
Academic Affairs Office  
學務部  
Registry  
註冊處  
Alumni and Development Office  
校友及發展辦公室  
Campus Management and Development Office  
校園管理及發展部  
Communications Office  
傳訊部  
Finance Office  
財務部  
Global Affairs Office  
全球事務部
- N6** Graduate School  
研究生院  
Information and Communication Technology Office  
資訊及通訊科技部  
Internal Audit Office  
內部審計辦公室  
Office of Administration  
行政部  
Office of Health, Safety and Environmental Affairs  
安健及環境事務辦公室  
Rector's Office  
校長辦公室  
Research Services and Knowledge Transfer Office  
研究服務及知識轉移辦公室  
Strategy and Planning Office  
策略及規劃辦公室  
University Council Office  
校董會辦公室
- N8** UM Sports Complex  
澳大綜合體育館
- N9** Office of Sports Affairs  
體育事務部
- N21** Institute of Collaborative Innovation  
協同創新研究院  
Institute of Microelectronics  
微電子研究院  
State Key Laboratory of Analog and Mixed-Signal VLSI  
模擬與混合信號超大型集成電路國家重點實驗室  
State Key Laboratory of Internet of Things for Smart City  
智慧城市物聯網國家重點實驗室  
Institute of Chinese Medical Sciences  
中醫藥研究院
- N22** State Key Laboratory of Quality Research in Chinese Medicine  
中醫質量研究國家重點實驗室  
Ministry of Education Frontiers Science Center for Precision Oncology  
教育部精準腫瘤學前沿科學中心
- N23** Institute of Applied Physics and Materials Engineering  
應用物理及材料工程研究院
- N24** Research Building  
科研大樓
- N25** Medical and Pharmaceutical Testing Building  
醫療檢測樓

## SOUTH 南區

- S1-S4** Postgraduate Houses  
研究生宿舍
- S8** University Mall  
薈芳坊
- S9** Shiu Pong College  
紹邦書院
- S21-S36** Staff Quarters  
教職員宿舍
- Restaurants, Banks, and Retail Shops  
餐廳、銀行和零售商店
- UM Souvenirs  
澳大紀念品



## APPENDICES

## Enquiries

Further enquiries related to admissions may be directed to:

Undergraduate Programmes**Registry**

Tel : (853) 8822 4007  
 E-mail : [admission@um.edu.mo](mailto:admission@um.edu.mo)  
 Website : <https://reg.um.edu.mo>  
 Address : Registry, Room G002, Administration Building,  
 University of Macau, N6  
 Avenida da Universidade, Taipa, Macao, China

Postgraduate Programmes**Graduate School**

Tel : (853) 8822 4898  
 E-mail : [gradschool@um.edu.mo](mailto:gradschool@um.edu.mo)  
 Website : <https://grs.um.edu.mo>  
 Address : Graduate School, Room G001, Administration Building,  
 University of Macau, N6  
 Avenida da Universidade, Taipa, Macao, China

Further enquiries relating to programmes of studies may be directed to:

<b>Faculty of Arts &amp; Humanities</b>	<b>General Office</b>	Tel: (853) 8822 8357 E-mail: <a href="mailto:fah.enquiry@um.edu.mo">fah.enquiry@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/">https://fah.um.edu.mo/</a>
	<b>Centre for Chinese History and Culture</b>	Tel: (853) 8822 2708, 8822 99564028 E-mail: <a href="mailto:cchc.info@um.edu.mo">cchc.info@um.edu.mo</a> Website: <a href="https://cchc.fah.um.edu.mo/">https://cchc.fah.um.edu.mo/</a>
	<b>Department of Arts and Design</b>	Tel: (853) 8822 9956, 8822 4041 Email: <a href="mailto:fah.dad@um.edu.mo">fah.dad@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-arts-and-design/">https://fah.um.edu.mo/department-of-arts-and-design/</a>
	<b>Department of Chinese Language and Literature</b>	Tel: (853) 8822 9259, 8822 8150 E-mail: <a href="mailto:fah.chinese@um.edu.mo">fah.chinese@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-chinese-language-and-literature/">https://fah.um.edu.mo/department-of-chinese-language-and-literature/</a>
	<b>Department of English</b>	Tel: (853) 8822 8201, 8822 4063 E-mail: <a href="mailto:fah.english@um.edu.mo">fah.english@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-english/">https://fah.um.edu.mo/department-of-english/</a>
	<b>Department of History</b>	Tel: (853) 8822 8801, 8822 8821 E-mail: <a href="mailto:fah.history@um.edu.mo">fah.history@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-history/">https://fah.um.edu.mo/department-of-history/</a>
	<b>Department of Japanese</b>	Tel: (853) 8822 8260, 8822 8230 E-mail: <a href="mailto:fah.japanese@um.edu.mo">fah.japanese@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-japanese/">https://fah.um.edu.mo/department-of-japanese/</a>
	<b>Department of Philosophy and Religious Studies</b>	Tel: (853) 8822 4768 E-mail: <a href="mailto:fah.philosophy@um.edu.mo">fah.philosophy@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-philosophy-and-religious-studies/">https://fah.um.edu.mo/department-of-philosophy-and-religious-studies/</a>

<b>Faculty of Arts &amp; Humanities</b>	<b>Department of Portuguese</b>	Tel: (853) 8822 8903, 8822 8181 E-mail: <a href="mailto:fah.portuguese@um.edu.mo">fah.portuguese@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/department-of-portuguese/">https://fah.um.edu.mo/department-of-portuguese/</a>
	<b>English Language Centre</b>	Tel: (853) 8822 8120, 8822 4694 E-mail: <a href="mailto:fah.elc@um.edu.mo">fah.elc@um.edu.mo</a> Website: <a href="https://fah.um.edu.mo/english-language-centre/">https://fah.um.edu.mo/english-language-centre/</a>

<b>Faculty of Business Administration</b>	<b>General Office</b>	Tel: (853) 8822 4623/4734/4737 E-mail: <a href="mailto:fba.suggestion@um.edu.mo">fba.suggestion@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/">https://fba.um.edu.mo/</a>
	<b>Department of Accounting and Information Management</b>	Tel: (853) 8822 8868 E-mail: <a href="mailto:fba.suggestion@um.edu.mo">fba.suggestion@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/aim/">https://fba.um.edu.mo/aim/</a>
	<b>Department of Finance and Business Economics</b>	Tel: (853) 8822 9949 E-mail: <a href="mailto:fba.suggestion@um.edu.mo">fba.suggestion@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/fbe/">https://fba.um.edu.mo/fbe/</a>
	<b>Department of Management and Marketing</b>	Tel: (853) 8822 4649 E-mail: <a href="mailto:fba.suggestion@um.edu.mo">fba.suggestion@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/mml/">https://fba.um.edu.mo/mml/</a>
	<b>Department of Integrated Resort and Tourism Management</b>	Tel: (853) 8822 4731 E-mail: <a href="mailto:fba.suggestion@um.edu.mo">fba.suggestion@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/drtm/">https://fba.um.edu.mo/drtm/</a>
	<b>Postgraduate Programmes</b>	Tel: (853) 8822 4607/4656/4736/4799/9957 E-mail: <a href="mailto:fba.enquiry@um.edu.mo">fba.enquiry@um.edu.mo</a> Website: <a href="https://fba.um.edu.mo/programmes/">https://fba.um.edu.mo/programmes/</a>

<b>Faculty of Education</b>	<b>General Office</b>	<u>Undergraduate Programmes</u> Tel: (853) 8822 4109, 8822 8776, 8822 8775
		<u>Postgraduate Programmes</u> Tel: (853) 8822 8789, 8822 8770, 8822 8773, 8822 4118 E-mail: <a href="mailto:FED_Prog@um.edu.mo">FED_Prog@um.edu.mo</a> Website: <a href="https://www.um.edu.mo/fed/">https://www.um.edu.mo/fed/</a>

<b>Faculty of Health Sciences</b>	<b>General Office</b>	Tel: (853) 8822 4909, 8822 4296 E-mail: <a href="mailto:fhs.enquiry@um.edu.mo">fhs.enquiry@um.edu.mo</a> Website: <a href="https://fhs.um.edu.mo">https://fhs.um.edu.mo</a>
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<b>Faculty of Law</b>	<b>General Office</b>	Tel: (853) 8822 9358, 8822 4176, 8822 4795, 8822 4770, 8822 4772 E-mail: <a href="mailto:fl.enquiry@um.edu.mo">fl.enquiry@um.edu.mo</a> Website: <a href="https://fl.um.edu.mo">https://fl.um.edu.mo</a>
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<b>Faculty of Science &amp; Technology</b>	<b>General Office</b>	Tel: (853) 8822 4963 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo">https://www.fst.um.edu.mo</a>
	<b>Department of Civil and Environmental Engineering</b>	Tel: (853) 8822 4967 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/cee/">https://www.fst.um.edu.mo/cee/</a>
	<b>Department of Computer and information Science</b>	Tel: (853) 8822 4978 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/cis/">https://www.fst.um.edu.mo/cis/</a>
	<b>Department of Electrical &amp; Computer Engineering</b>	Tel: (853) 8822 4961 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/ece/">https://www.fst.um.edu.mo/ece/</a>
	<b>Department of Electromechanical Engineering</b>	Tel: (853) 8822 4977 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/eme/">https://www.fst.um.edu.mo/eme/</a>
	<b>Department of Mathematics</b>	Tel: (853) 8822 4926 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/math/">https://www.fst.um.edu.mo/math/</a>
	<b>Department of Ocean Science and Technology</b>	Tel: (853) 8822 8087 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="http://www.fst.um.edu.mo/ost/">http://www.fst.um.edu.mo/ost/</a>
	<b>Department of Physics and Chemistry</b>	Tel: (853) 8822 9170 Fax: (853) 8822 2426 E-mail: <a href="mailto:fst.enquiry@um.edu.mo">fst.enquiry@um.edu.mo</a> Website: <a href="https://www.fst.um.edu.mo/pc/">https://www.fst.um.edu.mo/pc/</a>

<b>Faculty of Social Sciences</b>	<b>General Office</b>	Tel: (853) 8822 8976 E-mail: <a href="mailto:fss.enquiry@um.edu.mo">fss.enquiry@um.edu.mo</a> Website: <a href="https://fss.um.edu.mo">https://fss.um.edu.mo</a>
	<b>Department of Communication</b>	Tel: (853) 8822 8961, 8822 8978 E-mail: <a href="mailto:fss.comm@um.edu.mo">fss.comm@um.edu.mo</a> Website: <a href="https://comm.fss.um.edu.mo">https://comm.fss.um.edu.mo</a>
	<b>Department of Economics</b>	Tel: (853) 8822 4037 E-mail: <a href="mailto:fss.econ@um.edu.mo">fss.econ@um.edu.mo</a> Website: <a href="https://econ.fss.um.edu.mo">https://econ.fss.um.edu.mo</a>
	<b>Department of Government and Public Administration</b>	Tel: (853) 8822 8301, 8822 8321 E-mail: <a href="mailto:fss.gpa@um.edu.mo">fss.gpa@um.edu.mo</a> Website: <a href="https://gpa.fss.um.edu.mo">https://gpa.fss.um.edu.mo</a>

<b>Faculty of Social Sciences</b>	<b>Department of Psychology</b>	Tel: (853) 8822 8381, 8822 4261 E-mail: <a href="mailto:fss.psy@um.edu.mo">fss.psy@um.edu.mo</a> Website: <a href="https://psych.fss.um.edu.mo">https://psych.fss.um.edu.mo</a>
	<b>Department of Sociology</b>	Tel: (853) 8822 4397, 8822 8816 E-mail: <a href="mailto:fss.soc@um.edu.mo">fss.soc@um.edu.mo</a> Website: <a href="https://soc.fss.um.edu.mo">https://soc.fss.um.edu.mo</a>
	<b>Doctor of Public Administration Programme</b>	Tel: (853) 8822 8301, 8822 8321 E-mail: <a href="mailto:fss.dpa@um.edu.mo">fss.dpa@um.edu.mo</a> Website: <a href="https://dpa.fss.um.edu.mo">https://dpa.fss.um.edu.mo</a>
	<b>Macau Studies Programme</b>	Tel: (853) 8822 4506 E-mail: <a href="mailto:cms.info@um.edu.mo">cms.info@um.edu.mo</a> Website: <a href="https://cms.um.edu.mo">https://cms.um.edu.mo</a>

<b>Institute of Applied Physics and Materials Engineering</b>	<b>General Office</b>	Tel: (853) 8822 4142, 8822 9953 E-mail: <a href="mailto:iapme.enquiry@um.edu.mo">iapme.enquiry@um.edu.mo</a> Website: <a href="https://iapme.um.edu.mo/">https://iapme.um.edu.mo/</a>
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<b>Institute of Advanced Studies in Humanities and Social Sciences</b>	<b>General Office</b>	Tel: (853) 8822 2082 E-mail: <a href="mailto:ias.enquiry@um.edu.mo">ias.enquiry@um.edu.mo</a> Website: <a href="https://ias.um.edu.mo/">https://ias.um.edu.mo/</a>
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<b>Institute of Chinese Medical Sciences</b>	<b>General Office</b>	Tel: (853) 8822 4685 E-mail: <a href="mailto:icms.enquiry@um.edu.mo">icms.enquiry@um.edu.mo</a> Website: <a href="https://sklqrcm.um.edu.mo">https://sklqrcm.um.edu.mo</a>
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<b>Institute of Collaborative Innovation</b>	<b>General Office</b>	Tel: (853) 8822 4600 E-mail: <a href="mailto:ICI.Enquiry@um.edu.mo">ICI.Enquiry@um.edu.mo</a> Website: <a href="https://ici.um.edu.mo">https://ici.um.edu.mo</a>
	<b>Centre for Cognitive and Brain Sciences</b>	Tel: (853) 8822 4600 E-mail: <a href="mailto:ICI.CogBrainSci@um.edu.mo">ICI.CogBrainSci@um.edu.mo</a> Website: <a href="https://ccbs.ici.um.edu.mo/">https://ccbs.ici.um.edu.mo/</a>
	<b>Centre for Artificial Intelligence and Robotics</b>	Tel: (853) 8822 4600 E-mail: <a href="mailto:ICI.CAIR@um.edu.mo">ICI.CAIR@um.edu.mo</a> Website: <a href="https://cair.ici.um.edu.mo/">https://cair.ici.um.edu.mo/</a>



<b>Institute of Collaborative Innovation</b>	<b>Centre for Data Science</b>	Tel: (853) 8822 4600 E-mail: <a href="mailto:ICI.Datasci@um.edu.mo">ICI.Datasci@um.edu.mo</a> Website: <a href="https://cds.ici.um.edu.mo/">https://cds.ici.um.edu.mo/</a>
	<b>Centre for Innovation and Entrepreneurship</b>	Tel: (853) 8822 9219 E-mail: <a href="mailto:ICI.Innovation@um.edu.mo">ICI.Innovation@um.edu.mo</a> Website: <a href="https://cie.ici.um.edu.mo/">https://cie.ici.um.edu.mo/</a>
	<b>Macau Institute for Translational Medicine and Innovation</b>	Tel: (853) 8822 9204 E-mail: <a href="mailto:mitmi.info@um.edu.mo">mitmi.info@um.edu.mo</a> Website: <a href="https://mitmi.ici.um.edu.mo/">https://mitmi.ici.um.edu.mo/</a>

<b>Institute of Microelectronics</b>	<b>General Office</b>	Tel: (853) 8822 4700 E-mail: <a href="mailto:amsv.enquiry@um.edu.mo">amsv.enquiry@um.edu.mo</a> Website: <a href="https://ime.um.edu.mo/">https://ime.um.edu.mo/</a>
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<b>Honours College</b>	<b>General Office</b>	Tel: (853) 8822 4974 E-mail: <a href="mailto:HC.office@um.edu.mo">HC.office@um.edu.mo</a> Website: <a href="https://hc.um.edu.mo/">https://hc.um.edu.mo/</a>
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<b>Asia-Pacific Academy of Economics and Management</b>	<b>General Office</b>	Tel: (853) 8822 8137 E-mail: <a href="mailto:apaem_info@um.edu.mo">apaem_info@um.edu.mo</a> Website: <a href="https://apaem.um.edu.mo/">https://apaem.um.edu.mo/</a>
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<b>State Key Laboratory of Internet of Things for Smart City (University of Macau)</b>	<b>General Office</b>	Tel: (853) 8822 4200 Fax: (853) 8822 2466 E-mail: <a href="mailto:lotsc.enquiry@um.edu.mo">lotsc.enquiry@um.edu.mo</a> Website: <a href="https://sklotsc.um.edu.mo/">https://sklotsc.um.edu.mo/</a>
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<b>Centre for Teaching and Learning Enhancement</b>	<b>General Office</b>	Tel: (853) 8822 4583 E-mail: <a href="mailto:ctle@um.edu.mo">ctle@um.edu.mo</a> Website: <a href="https://ctle.um.edu.mo">https://ctle.um.edu.mo</a>
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## **Office Hours:**

Monday – Thursday : 9:00 a.m. – 1:00 p.m. and 2:00 p.m. – 5:45 p.m.

Friday : 9:00 a.m. – 1:00 p.m. and 2:00 p.m. – 5:30 p.m.

**Office is closed on Saturdays, Sundays and public holidays.**

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All details given in the Calendar are based on  
information in July 2025.

For updated information, please refer to the University Homepage  
<http://www.um.edu.mo>.

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