



Macao Polytechnic Institute
澳門理工學院



Bachelor of Science in Computing
電腦學學士學位課程



Bachelor of Science in Computing 電腦學學士學位課程

Specialization 專業範疇	Enterprise Information Systems, Gaming Technology, or Computer Education 企業資訊系統、博彩科技或電腦教育
Normal Duration 學制	4 years 4 年

Teaching Language and Mode 授課語言及組別	English/Day time session 英文/日間
Credits Required for Graduation 完成課程所需總學分	150 credits 150 學分



Programme Aims 課程目標

The design of the Bachelor of Science in Computing Programme aims at providing a sound practical knowledge of computing fundamentals and a thorough understanding of the analytical, design, and planning skills associated with the computing profession, and the knowledge of computer education in secondary schools, in order to provide students with the means to compete successfully in the job market as well as to develop their academic competences in pursuing further studies. To broaden the participation of students in their communication with the global IT community, the Programme promotes internship during study, joint student projects with organizations, student activities, and overseas exchanges. Regular seminars, IT competitions, social gatherings are also held to enhance peer learning among students and further study opportunities.

電腦學學士學位課程旨在提供紮實的電腦學基礎知識，讓學生能掌握電腦專業分析、提高設計與規劃的能力，以及中學電腦教育知識，從而能在就業市場具備充分的競爭力，並為學生今後的學術深造作好充足的準備。為確保學生能緊貼全球 IT 業界的發展，電腦學課程提供在學實習計劃、安排學生參與機構的科研項目、組織學生活動，及開展與國內外的學術交流。電腦學課程亦定期舉辦學術講座、研討會、IT 競賽、學術交流等活動，以提高學生之間的學習互動，並為他們創造更多繼續深造的機會。



Specializations 專業範疇

Students will be given an opportunity to work in a related organization through internship during their study, and apply their acquired IT knowledge and skills for resolving technical challenges through their internship. Student has to choose one of the following specialization areas:

- **Computer Education**
Aims at providing students with the general and advanced knowledge of computer education and its practicing environment in secondary education. Graduates who have completed this specialization will receive the secondary teacher qualification, recognized by the Macao Education and Youth Affairs Bureau. This specialization includes “Introduction to Education”, “Educational Psychology and Counselling”, “Curriculum and Teaching Methods (IT in Secondary Education)”, “Teaching Practice I (IT in Secondary Education)”, and “Teaching Practice II (IT in Secondary Education)”.
- **Gaming Technology**
Aims at providing students with the general and advanced knowledge of current technologies and operating environment in the gaming industry. This specialization includes “Introduction to Gaming Technology”, “Gaming Technology I”, “Gaming Technology II”, “Mathematics for Gaming Technology”, and “Computer Game Design and Development”.
- **Enterprise Information Systems**
Aims at providing students with an in-depth understanding of the information technology related to enterprise information systems, with an emphasis on business processes. This specialization includes “Performance Evaluation”, “Data Warehousing and Data Mining”, “Statistics II”, “Enterprise System and Application Development”, and “Strategic Planning for Information Systems”.

在學期間學生將可到相關機構實習，讓他們培養解決技術問題的能力，並得以充分地應用學到的資訊技術知識。學生可選擇以下任一專業範疇：

- **電腦教育**
學生將全面學習先進的電腦教育技術及在中學電腦教育的應用。本專業的畢業生具有澳門教育暨青年局認可的中學教師資格。本專業範疇科目包括「教育學」、「教育心理與輔導」、「課程與教學法（資訊科技中學教育）」、「教學實習 I（資訊科技中學教育）」及「教學實習 II（資訊科技中學教育）」。
- **博彩科技**
學生將全面學習當今先進的博彩資訊技術及在博彩行業的應用。本專業範疇科目包括「博彩科技概論」、「博彩科技 I」、「博彩科技 II」、「博彩科技數學」及「電腦遊戲設計及開發」。
- **企業資訊系統**
學生將深入學習資訊科技和相應的資訊系統構建，重點是在商業領域的應用。本專業範疇科目包括「效能評價」、「數據倉庫及數據採集」、「統計學 II」、「企業系統應用開發」及「資訊系統策略性規劃」。



Core Areas of Study 主要學習範疇

Core Subjects

- Computer Systems
- Data Management
- Gaming and Multimedia
- IS planning, Design and Control
- Mathematics
- Networking
- Programming and Information System Development
- Final Year Project
- English
- Computer Education
- Internship

Specialization Subjects

Student has to choose one of the following specialization areas:

- Enterprise Information Systems
- Gaming Technology
- Computer Education

Elective Subjects

- Advanced Computing modules
- General Studies modules

核心科目

- 電腦系統
- 數據管理
- 博彩科技及多媒體
- 資訊系統計劃、設計及管理
- 數學
- 網絡
- 編程及資訊系統開發
- 畢業報告
- 英文
- 電腦教育
- 實習

專業範疇科目

學生可選擇以下任一專業範疇：

- 企業資訊系統
- 博彩科技
- 電腦教育

選修科目

- 進階電腦專業科目
- 通識科目



International Academic Recognition 國際學術認可

The Bachelor of Science in Computing Programme has successfully achieved higher education academic accreditation granted by the Institution of Engineering and Technology (IET) in 2011 and 2016. Qualified graduate of the Programme partially fulfils the Chartered Engineer (CEng) educational requirement internationally.

Renowned universities abroad such as the University of Bologna, Italy, and Victoria University, Australia have articulation agreements with the Macao Polytechnic Institute. Graduates of the Bachelor of Science in Computing Programme of MPI can transfer to these universities for further studies.

In 2009, the Memorandum of Understanding between the Institute and the University of California, Los Angeles (UCLA) Henry Samueli School of Engineering and Applied Science, was renewed, with a new item for better student exchange programme. The abovementioned agreements should provide our students with more opportunities for further studies abroad.

電腦學學士學位課程於二〇一一年及二〇一六年成功通過英國工程技術學會 (IET) 的高等教育學術評審，學生畢業成績達標後，即具備國際認可工程專業的部分學歷資格。

國外著名大學，如意大利博洛尼亞大學和澳大利亞維多利亞大學等，已與澳門理工學院簽署合作協議。澳門理工學院電腦學學士學位課程的畢業生可以到這些大學深造。

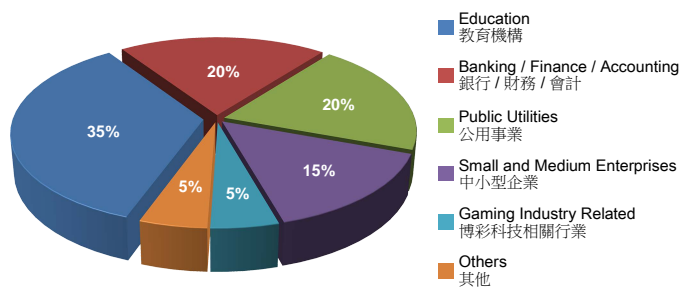
於二〇〇九年，澳門理工學院與美國加州大學洛杉磯分校亨利·薩繆爾工程及應用科學學院簽訂了有關更新的合作備忘錄，並加入了加強學生交流的條款，為電腦學課程學生提供更多海外升學的機會。

Graduate Destinations 畢業生去向

The Bachelor of Science in Computing Programme prepares students who will be equipped to work in the industry as system engineers and programmers, network and system administrators, and computer teachers of secondary schools. Computer Education graduates will receive secondary teacher qualification recognised by the Macao Education and Youth Affairs Bureau. For graduates who pursue further studies, they are accepted by renowned universities from all over the world, such as the University of California, Los Angeles (UCLA), the University of London, the University of Melbourne, and the University of Waterloo, etc.

電腦學學士學位課程為有志投身於業界成為系統工程師、程序員、網絡和系統管理員及中學電腦教師等職位的學生作好專業準備。電腦教育專業畢業生在本澳註冊中學任職中學電腦教師，其資歷獲澳門教育暨青年局認可。選擇繼續升學的畢業生廣受世界知名大學歡迎，例如：美國加州大學洛杉磯分校、英國倫敦大學、澳洲墨爾本大學、加拿大滑鐵盧大學等。

Employment Sectors 2020 就業範疇



Teaching Faculty 教學人員	Professor Im Sio Kei, Marcus (President)	嚴肇基教授 (院長)
	Professor Tse Tan Sim, Rita (Director)	謝丹嫻教授 (校長)
	Professor Yip Lee Wah	葉李華教授
	Professor Cheong Ngai, Phillip	張毅教授
	Visiting Professor Laurie Cuthbert	Laurie Cuthbert 教授
	Visiting Professor Giovanni Pau	Giovanni Pau 教授
	Visiting Scholar Dr Alan Pearmain	Alan Pearmain 博士
	Dr. Lam Chan Tong	林燦堂博士
	Dr. Yung Yau Kong, Edmund	容祐江博士
	Dr. Ng Koon Kei, Benjamin	吳冠祺博士
	Dr. Xu Yang	楊旭博士
	Dr. Liu Yue, June	劉玥博士
	Dr. Tang Su Kit, Jacky	鄧樹傑博士
	Dr. Ines Lau	劉曼玲博士
	Dr. Ke Wei	柯韋博士
	Dr. Choi Ka Cheng, Rebecca	蔡嘉靜博士
	Dr. Law Ka Lun, Eddie	羅家倫博士
	Dr. Kim Song-Kyoo, Amang	金松圭博士
	Dr. Luo Wuman, Amy	羅吳蔓博士
	Dr. Lei Kin, Liam	李堅博士
	Mr. Chui Sai Chak, Zachary	崔世澤
	Mr. Ho Ka Chong, Wilson	何家忠
	Mr. Lei Iat Seng, Philip	李日昇
	Ms. Chan Mei Pou, Calana	陳美寶
	Mr. Siu Ka Meng, Andrew	蕭嘉明



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