



UNIVERSITY
MALAYSIA
OF COMPUTER SCIENCE
& ENGINEERING



BACHELOR OF COMPUTER SCIENCE (HONOURS)

MQA/PA2692

PROGRAMME OVERVIEW

The Bachelor of Computer Science (Hons) programme prepares students to learn about the solid core of computer science through a mix of theoretical and practical experience. Graduates of the programme will be equipped with excellent programming skills and are capable of designing, implementing and optimizing innovative software applications. As computer science is a rapidly evolving discipline with strong links to many other fields, the programme also provides them with unparalleled flexibility to pursue their interests and the ability to gain in depth knowledge in the other areas.

LEVEL OF STUDY :	Degree
FACULTY :	Faculty of Computing
DURATION :	3 Years (6 Long Semesters + 3 Short Semester)
STUDY MODE :	Full Time
INTAKE :	January / April / August

ENTRY REQUIREMENTS

- Pass STPM with at least 2 subjects with minimum CGPA of 2.0 and credit in Mathematics and 1 Physical Science at the SPM level; OR
- Pass Unified Examination Certificate (UEC) with at least grade B in 5 subjects including Mathematics and 2 Physical Science subjects; OR
- Pass GCE A-Level with at least grade C in Mathematics and 2 Physical Science; OR
- Pass Ministry of Education (MOE) Matriculation in related programme with minimum CGPA of 2.0 and a credit in Mathematics at the SPM level; OR
- Completed UniMy Foundation Programme or other Higher Education Provider (HEP) foundation programmes recognised by Government of Malaysia with minimum CGPA of 2.0 and a credit in Mathematics at the SPM level; OR
- Pass Diploma in Computing field with minimum CGPA of 2.5; OR
- Pass Diploma in other field with minimum CGPA of 2.5 and a credit in Mathematics at the SPM level; OR
- Pass Australian Year 12 with minimum 55 point average in 6 subjects including Mathematics and 1 Physical Science; OR
- Pass South Australian Matriculation (SAM) with minimum TER point 55 in 5 subjects including Mathematics and 1 Physical Science and no subject below 10/20; OR
- Pass Australian Matriculation with minimum TER point 55 including Mathematics and 1 Physical Science subject; OR
- Pass Canadian Pre-University (CPU) or Ontario Secondary Diploma (Canadian Grade 12) with a pass in 6 subjects with 55% average including Mathematics and 1 Physical Science subject; OR
- Pass International Baccalaureate (IB) Diploma with minimum 24/45 point and credit in Mathematics and 1 Physical Science; OR
- Other equivalent qualification that is recognised by the Malaysian Government

ENGLISH REQUIREMENT

Evidence of proficiency in one of the following English tests.

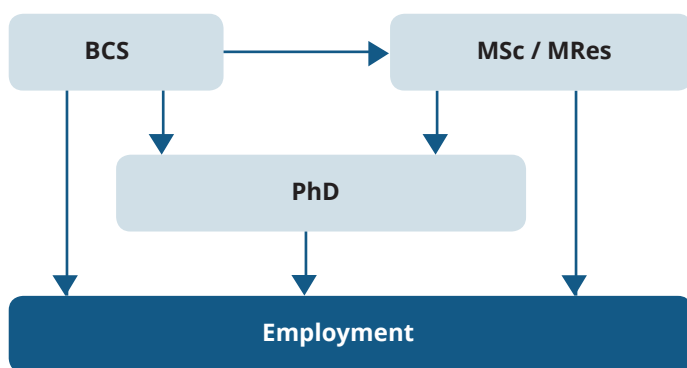
For Malaysian candidates:

- TOEFL : 550 (paper-based), 213 (computer-based), 79 (internet based)
- IELTS : 5.5
- MUET : Band 3
- UEC English : B4
- O-Level English : Credit
- English 1119 : Credit

For international candidates:

- Pass TOEFL (within the 2-year validity period) with a minimum score of 550; OR
- Pass IELTS (within the 2-year validity period) with a minimum score of Band 6.

STUDY / CAREER PATHWAY



CAREER OPPORTUNITIES

- Computer Scientist
- Machine Learning Engineer
- Computer Network Engineer
- Network Security Specialist
- Network Solution Architect
- Database Analyst
- Database Developer
- Data Scientist
- Data Visualization Developer
- Business Analytics Specialist
- Business Intelligence Engineer
- Computer Information Research Scientist
- Computer Security Engineer
- Information Security Consultant
- Computer Forensics Investigator / Forensic Analyst
- Systems Analyst / Engineer
- University Academician
- Corporate Trainer

COURSE OUTLINE

Year 1

- Mathematics 1
- Mathematics 2
- Statistics & Probability
- Programming Techniques
- Computer Organization and Architecture
- Systems Development
- Data Structures and Algorithms
- Data Communication and Networks
- Software Engineering
- Databases
- Research and Innovative Thinking
- Hubungan Etnik
- Tamadun Islam dan Tamadun Asia (TITAS)
- Co-Curriculum

Year 2

- Programming Paradigm
- Object-Oriented Programming
- Algorithm Design and Analysis
- Operating Systems
- Computer Science Theory
- Programming Language Design and Semantic
- Information Assurance and Security
- Software Project Management
- Computing and Society
- Professional Communication
- 3rd Language
- Cyberpreneurship
- Industrial Workshop

Year 3

- Artificial Intelligence
- Compiler and Program Analysis
- Human Computer Interaction
- Principle and Applications of Parallel Programming
- Distributed Applications Development
- Elective #1
- Elective #2
- Elective #3
- Elective #4
- Final Year Project 1
- Final Year Project 2
- Industrial Training

APPLICATION PROCEDURE

Online application is available at admission.unimy.edu.my

FOR ENQUIRIES

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WEBSITE

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- <https://twitter.com/unimyofficial>



ADDRESS

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ACADEMIC PARTNERS



INDUSTRY PARTNERS

