

# BACHELOR OF SOFTWARE ENGINEERING (HONOURS)

MQA/PA2693

## PROGRAMME OVERVIEW

The Bachelor of Software Engineering (Hons) programme is designed to provide students with knowledge and skills that go beyond programming to develop complex but reliable, safe and efficient software systems. The core curriculum builds on top of computer science fundamentals covering topics ranging from planning, design, analysis, verification, validation, implementation, deployment to maintenance that are essential to successful engineering of a wide range of software systems. Graduates of the programme will have strong technical, process, communication and teamwork skills to be immediately productive in the industry.

<b>LEVEL OF STUDY :</b>	Degree
<b>FACULTY :</b>	Faculty of Computing
<b>DURATION :</b>	3 Years (6 Long Semesters + 3 Short Semester)
<b>STUDY MODE :</b>	Full Time
<b>INTAKE :</b>	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 Malaysian Government

## ENGLISH REQUIREMENT

Evidence of proficiency in one of the following English tests.

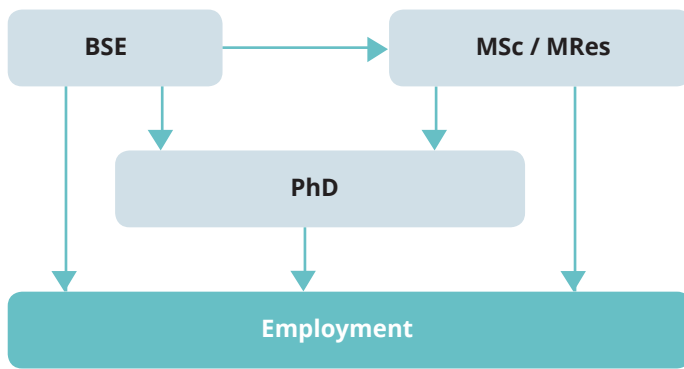
### For Malaysian candidates:

- 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

- Software Project Manager
- Software Engineer
- Software / Solution Architect
- Software Designer
- Systems Analyst
- Software Developer
- Software Tester
- Mobile Solutions Analyst
- Mobile Applications Developer
- 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

- Object-Oriented Programming
- Operating Systems
- Computer Science Theory
- Software Requirement Engineering
- Software Project Management
- Mobile Software Engineering
- Mobile Device Programming
- Service-Oriented Architecture
- Computing and Society
- Professional Communication
- 3rd Language
- Cyberpreneurship
- Industrial Workshop

### Year 3

- Human Computer Interaction
- Software Testing & Quality Assurance
- Mobile System
- Mobile Electronic Commerce
- Formal Methods
- 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](http://admission.unimy.edu.my)

## FOR ENQUIRIES

T +6 03 8800 5050 F +6 03 8800 5011 E [info@Unimy.edu.my](mailto:info@Unimy.edu.my)

## WEBSITE

[www.Unimy.edu.my](http://www.Unimy.edu.my)

- [www.facebook.com/unimyofficial](https://www.facebook.com/unimyofficial)
- <https://twitter.com/unimyofficial>



## ADDRESS

University Malaysia of Computer Science & Engineering  
Menara Z10, Ground and Mezzanine Floor  
Jalan Alamanda 2, Precinct 1  
62000 Wilayah Persekutuan Putrajaya, Malaysia.

## ACADEMIC PARTNERS



## INDUSTRY PARTNERS

