COMPUTING
STUDY OPTIONS AND CAREER OPPORTUNITIES

swinburne.edu.my/computing

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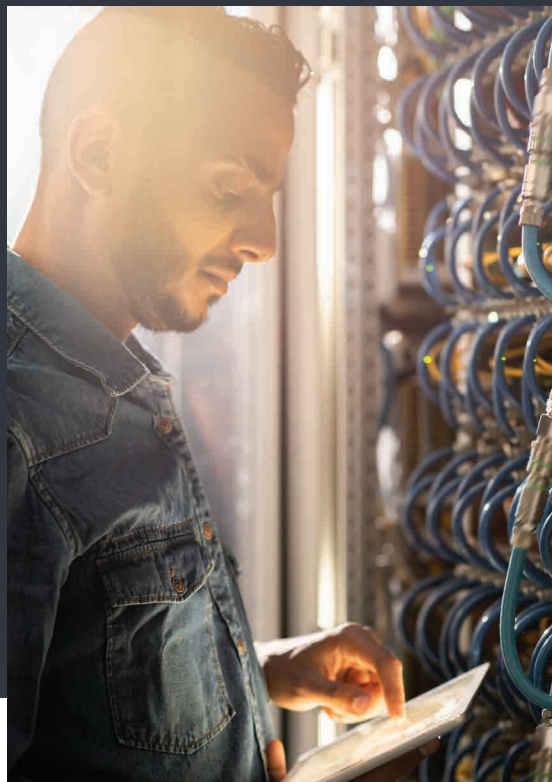
SWINBURNE UNIVERSITY OF TECHNOLOGY

MALAYSIA • AUSTRALIA

WITH A DEGREE FROM SWINBURNE, YOU CAN GO ANYWHERE IN THE WORLD.

Malaysia. Australia. Our graduates are spread around the globe and work for some of the most dynamic organisations, from start-ups to not-for-profit to multinationals.

A degree from Swinburne means you'll have the prestige of a globally renowned university paired with the confidence that comes from genuine workplace experience.

When you graduate, you'll become one of thousands of Swinburne graduates around the world who are writing their own success stories.

PROFESSIONALLY ACCREDITED	Australian Computer Society, Malaysian Board of Technologist

CISCO, CLOUDERA, AND KEYSIGHTS CERTIFIED UNITS	Computer Networking and Big Data Analytics

MEETING INDUSTRY REQUIREMENTS	Meets industry demands for Data Science, Cybersecurity , Artificial Intelligence and Internet-of-Things

LESS THEORIES, MORE HANDS-ON WITH STATE-OF-THE-ART FACILITIES	Problem-Based Learning + Peer-to-Peer Brainstorming = Collaborative teamwork

WHAT'S RIGHT FOR ME: PATHWAY OPTIONS

At Swinburne University, you get options. You can start your journey in Foundation studies then progress to a degree; jump in to a standard three-year degree, or you can even start your study journey now and go on to postgraduate study – like a Masters or PhD – down the track.

QUALIFICATION	SWINBURNE FOUNDATION STUDIES (IT/MULTIMEDIA)	COMPUTING DEGREE WITH HONOURS	MASTERS	DOCTOR OF PHILOSOPHY
Duration	1 year full-time	3 years full-time	2 years	4 years
Entry requirements	Successful completion of SPM or equivalent and upon meeting the minimum entry requirements.	Successful completion of STPM, A Levels or Year 12 equivalents, and meets the minimum entry requirements and pre-requisite subjects.	A recognized degree at a Credit level.	Four years or equivalent of tertiary studies in relevant discipline at a high level of achievement.

2020 INTAKES

Foundation - January, April, September, October
Diploma - April, September
Degree - March, September
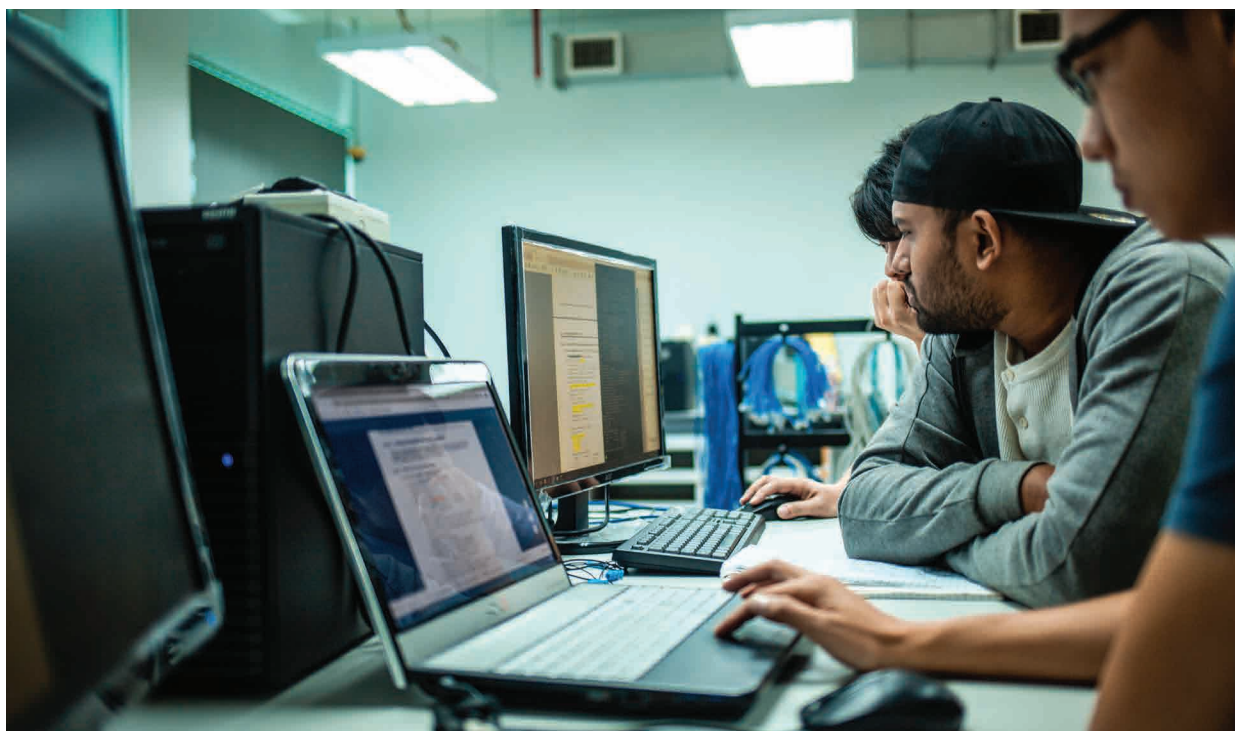
SWINBURNE FOUNDATION STUDIES (IT/MULTIMEDIA)

Foundation Studies prepares you for direct entry to a bachelor's degree at Swinburne Sarawak or Swinburne Australia, as long as you meet the entry requirement and pre-requisites*. Courses are designed to help you gain fundamental communication, mathematics and multimedia design skills and be introduced to areas of computer programming.

*must meet entry requirements and pre-determined requisites

UNITS OF STUDY

Core units

- FCL10001 Academic and Communication Skills A
- FCL10003 Innovation and Change
- FCT10010 Information Technology
- FCE10020 Introductory Mathematics
- FST10013 Multimedia
- FCL10002 Academic and Communication Skills B
- FST10012 Mathematics for Computing
- FST10014 Programming
- FST10011 Fundamentals of Web Technology
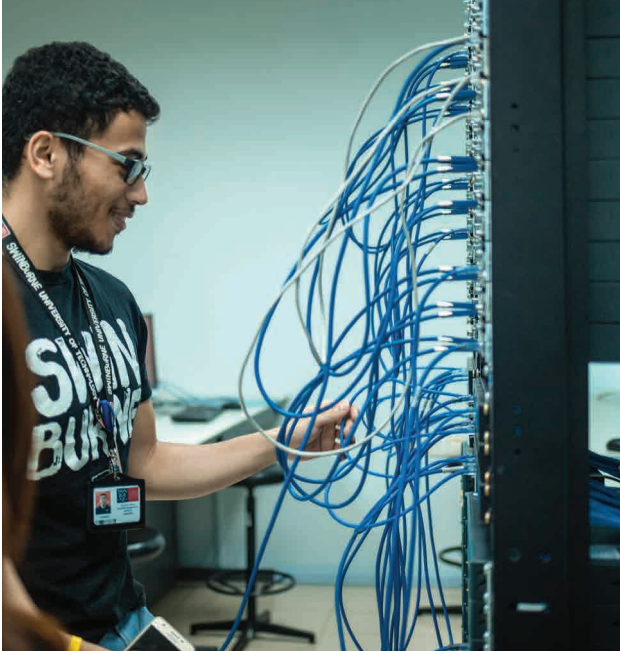
WHAT'S IN A STANDARD ICT DEGREE?

Our Computing degrees are made up of 24 units of study for a 3-year program. A unit is basically another name for a subject and you'll usually take four per semester; eight per year. These units fall largely into one of three categories:

Core units – students will need to complete these units, regardless of his chosen major, in order to graduate.
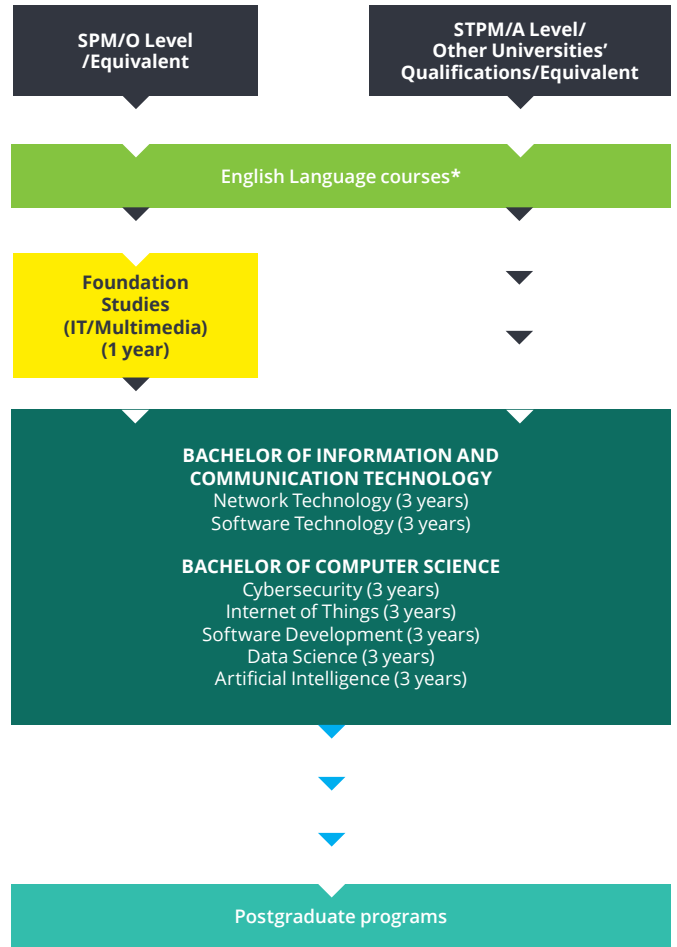
Major units – these units make up your specialisation. So pick a major you love!

Elective units – these are the remaining units from any areas of study.

- Taking all elective units from your course gives you a second major
- If you take elective units from another course, you'll have a co-major
- Taking four electives from one area earns you a minor
- Mix and match elective units based on your interest.

Your pathway options

SPM/O Level /Equivalent	STPM/A Level/ Other Universities' Qualifications/Equivalent

English Language courses*

Foundation Studies (IT/Multimedia) (1 year)

BACHELOR OF INFORMATION AND COMMUNICATION TECHNOLOGY
Network Technology (3 years)
Software Technology (3 years)

BACHELOR OF COMPUTER SCIENCE
Cybersecurity (3 years)
Internet of Things (3 years)
Software Development (3 years)
Data Science (3 years)
Artificial Intelligence (3 years)

Postgraduate programs

▶ Course entry
▶ Pathway Opportunity

* If students does not meet the English Language entry requirement

COMPUTING STUDY GUIDE

"I WANT TO LEARN ABOUT COMPUTER AND NETWORK CONFIGURATIONS, WEB AND APPLICATION PROGRAMMING AND DATABASE DESIGN AND MAINTENANCE."

Study
INFORMATION AND COMMUNICATION TECHNOLOGY

With a degree
Bachelor of Information and Communication Technology

R2/481/6/0228 MQA/SWA0076

To learn about	**Unit**
Networking	4
Information Systems	3
ICT	3
Computer Science	6
Electives	8

To become
- Cloud Architect
- Computer Forensic
- Mobile Application Developer
- Web Developer
- Computer Network Engineer
- System Integration Engineer

Annual tuition fee
M: RM24,000
I: RM30,680

Duration:
3 years

"I WANT TO LEARN HOW TO DESIGN AND IMPLEMENT SOFTWARE, WEB OR MOBILE APPLICATION DEVELOPMENT BY FOCUSING ON EITHER CYBERSECURITY, INTERNET OF THINGS, DATA SCIENCE OR ARTIFICIAL INTELLEGENCE"

Study
COMPUTER SCIENCE

With a degree
Bachelor of Computer Science

R/481/6/0544 MQA/SWA0010

To learn about	**Unit**
Specialisation: Software Development	
Computer Science	8
Software Engineering	4
Networking & Security	2
ICT	1
IoT	1
Electives	8
Specialisation: Cybersecurity	
Computer Science	5
Software Engineering	4
Networking & Security	6
ICT	1
Electives	8
Specialisation: Internet of Things	
Computer Science	6
Software Engineering	3
IoT	4
Networking & Security	2
ICT	1
Electives	8
Specialisation: Data Science	
Computer Science	6
Software Engineering	3
Data Analytics	4
Networking & Security	1
Artificial Intelligence	1
ICT	1
Electives	8
Specialisation: Artificial Intelligence	
Computer Science	7
Software Engineering	3
Artificial Intelligence	4
Networking & Security	1
ICT	1
Electives	8

To become
- Full-stack Web Developer
- Mobile Application Developer
- Software Engineer
- Data Engineer
- Artificial Intelligence Engineer
- Cybersecurity Specialist
- Automation IT Engineer

Annual tuition fee
M: RM24,000
I: RM30,680

Duration:
3 years

Tuition fee for 2020 only. All tuition fees are subject to an annual review and adjustment.
Note: M: Malaysian | I: International

SCHOLARSHIPS AND BURSARIES

Scholarships are about providing opportunity, promoting equity and recognising excellence and achievement. That's why we've created various scholarships and bursaries that may help you meet your financial needs.

If you've excelled in your previous study, you could be awarded a scholarship or bursary. Generally, the better your grades, the higher the amount will be. And if you continue to do well in your studies, you may also be rewarded pathway scholarship for your next level of study.

SCHOLARSHIP	DESCRIPTION	VALUE
PRO CHANCELLOR'S ACADEMIC EXCELLENCE SCHOLARSHIP (FOUNDATION STUDIES)	This is a full scholarship for students enrolled into a Foundation program, up to the completion of the program.	Full scholarship
PRO CHANCELLOR'S ACADEMIC EXCELLENCE SCHOLARSHIP (UNDERGRADUATE STUDIES)	This is a full scholarship for students enrolled into an Undergraduate program.	Full scholarship
DEPUTY VICE-CHANCELLOR'S ACADEMIC EXCELLENCE AWARD (FOUNDATION STUDIES)	This scholarship is for students enrolled into Foundation studies.	Between RM2,000 to RM12,000
DEPUTY VICE-CHANCELLOR'S ACADEMIC EXCELLENCE AWARD (UNDERGRADUATE STUDIES)	This scholarship is for students enrolled into an Undergraduate program.	Between RM3,000 to RM10,000
ACADEMIC PROGRESSION SCHOLARSHIP	This scholarship is open to students who enrolled during the current year only.	RM5,000 per annum
UEC ACADEMIC GRANT	UEC graduates applying for a Bachelor's degree program at Swinburne Sarawak and who is qualified for the Deputy Vice-Chancellor's Academic Excellence Award will also be offered the UEC Academic Grant.	15% reduction of the 1st year's tuition fee on top of the Deputy Vice Chancellor's Academic Excellence Scholarship
EMERGING TECHNOLOGY AWARD	Open to students who had successfully enrolled into one of the programs below: • Bachelor of Engineering (Chemical) (Honours) • Bachelor of Information and Communication Technology • Bachelor of Computer Science • Bachelor of Design • Bachelor of Design (Multimedia Design) • Bachelor of Science (Biotechnology).	Up to 20% off the 1st year's tuition fee
DEAN'S OUTSTANDING AWARD	This award is in recognition of your participation in co-curricular activities or sports events at the state and national level.	Up to RM5,000
BUMIPUTERA FINANCIAL SCHEME	This financial scheme is open to Sarawakian Bumiputera students who are newly enrolled into any Foundation or Undergraduate program of study at Swinburne Sarawak.	Zero payment while waiting for loan approval from relevant government bodies (Terms & Conditions apply)
SIBLING'S REBATE	Open to 2nd and subsequent sibling of a current Swinburne student enrolled in a full-time award-bearing program of study.	10% rebate off 1st year's tuition fee
DIPLOMA PATHWAY BURSARY	Open to students who have successfully completed a Swinburne Sarawak diploma program.	15% rebate off 1st year's tuition fee
DIPLOMA PATHWAY SCHOLARSHIP	Open to students who had successfully completed a Diploma program from other institutions of higher learning.	10% off from the 1st year's tuition fees
SWINBURNE SARAWAK TRANSITION GRANT	This grant is to help offset any costs incurred for when a student enrol into any program of study at Swinburne Sarawak.	RM4,000 (Malaysian) RM5,000 (International)
BP40 BURSARY SCHEME	This bursary scheme is offered by Yayasan Sarawak to students wishing to enrol into Swinburne Sarawak's program of studies.	Tuition fee rebates and a Yayasan Sarawak study loan

For more information, and Terms & Conditions, visit swinburne.edu.my/scholarships

SWINBURNE AT A GLANCE

A Chancellery Building

B Faculty of Business, Design & Arts

C Multipurpose Hall

D Lecture Theatre

E Faculty of Engineering, Computing & Science

F Multistorey Carpark

G Block G & Centre for Digital Futures

H Hostel

I Cafeteria

J Student Leisure Centre & Chillin' Crib

Food & Beverage Outlets

1 Swinburne University of Technology Sarawak Campus

2 Borneo Medical Centre

3 Off-campus Residence- Victoria Hall

4 Immigration Department @ Federal Offices Complex

5 RHB Bank Bhd

6 The Spring Shopping Mall

7 Kuching District Police Headquarters

8 Mosque- Masjid Darul Ittihaad

9 Hotel- Citadines Uplands Kuching

HOW MUCH DOES A COMPUTING GRADUATE MAKE?

Computing degrees is one of the most employable degrees you can choose to study. With new technologies, a degree in computing prepares you for jobs that are in demand today, giving you the knowledge and skills you need to succeed.

THE AVERAGE MONTHLY SALARY FOR A ICT GRADUATE IN MALAYSIA

Field	Entry (< 3 years)	Average (< 7 years)	Senior (>10 years)
Mobile Application Developer	RM3,000 – RM5,300	RM6,000 – RM9,000	RM10,000 – RM12,600
Data Engineer	RM2,700 – RM5,500	RM6,500 – RM10,000	RM10,500 – RM13,000
Web Developer	RM3,500 – RM5,000	RM5,500 – RM7,800	RM8,500 – RM12,000

Source: salaryexpert.com

"The internet is becoming the town square for the global village of tomorrow."

- Bill Gates

PLEASE
RECYCLE

CAMPUS

**Swinburne University of Technology
Sarawak Campus**
Jalan Simpang Tiga
93350 Kuching,
Sarawak, Malaysia

FURTHER INFORMATION

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