SCIENCE STUDY OPTIONS AND CAREER OPPORTUNITIES

swinburne.edu.my/science

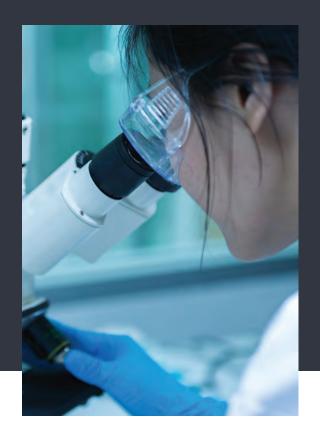


WITH A DEGREE FROM SWINBURNE, YOU CAN GO ANYWHERE IN THE WORLD.

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.



BIODIVERSITY HOTSPOT Sarawak is home to thousands of exotic plants, animals and microbial species STRONG INDUSTRY LINKAGES

Randstad, Sumitomo Chemical, DKSH, WWF, Sarawak Biodiversity Centre

UNIQUE AREA OF STUDIES

Tropical Ecology, Earth Observation, Environmental Biotechnology, Nutraceutical Biopesticides and Biofertilizers

FLEXIBLE MINOR CHOICES

Choose from Bio-entrepreneurship, Business Management, Commercialisation and many more

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 (SCIENCE)	SCIENCE DEGREE	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

Degree - March, September

SWINBURNE FOUNDATION STUDIES (ENGINEERING/ SCIENCE)

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 develop skills in communication, information technology and mathematics, and undertake units in physics, chemistry, and mathematics for engineering.

*must meet entry requirements and pre-determined requisites

UNITS OF STUDY

Students must complete seven core and two electives.

Core units

- FCL10001 Academic and Communication Skills A
- FCL10003 Innovation and Change
- FCT10010 Information Technology
- FSE10024 Introductory Physical Science
- FSE10022 Engineering/Science Mathematics A
- FCL10002 Academic and Communication Skills B
- FSE10021 Chemistry

Electives

- FSE10023 Engineering Maths B
- · FSE10025 Physics
- FST10014 Programming



WHAT'S IN A STANDARD SCIENCE DEGREE?

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

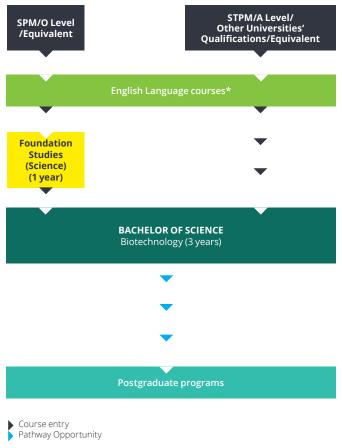
Core units – students will need to complete these units, regardless of his chosen major, in order to graduate.

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
- · Taking four electives from selected areas earns you a minor
- · Mix and match elective units based on your interest.

Your pathway options



 $^{^{\}star}$ If students does not meet the English Language entry requirement

SCIENCE STUDY GUIDE

"I WANT TO LEARN
HOW TO USE
LIVING ORGANISMS
AND THEIR BYPRODUCTS FOR
COMMERCIAL
DEVELOPMENT"

Study **BIOTECHNOLOGY**

With a degree Bachelor of Science (Biotechnology)

R/545/6/0060 MQA/SWA0100

To learn about

Basic Science

Applied Biology
Applied Chemistry

Communications and Research Skills Electives

Unit

To become

- Research and Development Scientist
- Microbiologist/ Biochemist/ Biotechnologist
- Medical Laboratory Technician/Scientist
- Product Specialist
- Quality Assurance/ Control Technician or Scientist
- Science communicator

Annual tuition fee

M: RM31,888 I: RM40,664

Duration: 3 years

"I WANT TO USE MY KNOWLEDGE OF EARTH'S SYSTEMS TO PROTECT THE ENVIRONMENT AND HUMAN HEALTH"

Study ENVIRONMENTAL SCIENCE

With a degree Bachelor of Science (Environmental Science)

N/422/6/0035 MQA/PSA 13429

To learn about

Basic Science

Applied Biology

Applied Chemistry

Environmental management Communications and Research Skills

Electives



Unit

To become

- Research and Development Scientist
- Microbiologist/ Biochemist/ Biotechnologist
- Medical Laboratory Technician/Scientist
- · Product Specialist
- Quality Assurance/ Control Technician or Scientist
- Science communicator

Annual tuition fee

M: RM31,888 I: RM40,664

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 1 st 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 2 nd and subsequent sibling of a current Swinburne student enrolled in a full-time award-bearing program of study.	10% rebate off 1 st 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

SWINBURNE AT A GLANCE





A Chancellery Building B Faculty of Business, Design & Arts

C Multipurpose Hall D Lecture Theatre Faculty of Engineering, Computing & Science

F Multistorey Carpark G Block G & Centre for Digital Futures H Hostel

Cafeteria

Student Leisure Centre & Chillin' Crib

TOP 10

Jobstreet Preferred Private Universities

KUCHING. MELBOURNE. OR BOTH.

An Australian education at 1/3 the tuition fee. Or transfer to Melbourne after your 1st year

TOP 3%

Among World's Top Universities (QS World University Rankings 2020)





Food & Beverage Outlets

RHB Bank Bhd

Swinburne University of Technology Sarawak Campus

The Spring Shopping Mall

Borneo Medical Centre

Kuching District Police Headquarters

Off-campus Residence-Victoria Hall

Mosque-Masjid Darul Ittihaad

Immigration Department @ Federal Offices Complex

Hotel-Citadines Uplands Kuching

HOW MUCH DOES A BIOTECHNOLOGY GRADUATE MAKE?

The average starting salary for a Science graduate depends on which organisation you work for and which industry you work in.

THE AVERAGE MONTHLY SALARY FOR A SCIENCE GRADUATE WORKING IN MALAYSIA.

Field	Entry (< 3 years)	Average (< 7 years)	Senior (> 10 years)
R&D Associate or Research Officer	RM3,500 – RM5,000	RM5,500 – RM8,000	RM8,500 – RM10,000
Biotechnologist	RM4,500 – RM6,000	RM6,500 – RM9,000	RM10,000 – RM13,000

Source: www.salaryexpert.com





CAMPUS

Swinburne University of Technology Sarawak Campus

Jalan Simpang Tiga 93350 Kuching, Sarawak, Malaysia

FURTHER INFORMATION

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The information contained in this course guide was correct at the time of publication, March 2020. The university reserves the right to alter or amend the material contained in this guide.

For the most up-to-date course information please visit our website.

