

# BACHELOR OF SCIENCE (ENVIRONMENTAL SCIENCE)

N/422/6/0035 (20/01/2027) | MQA/PSA13429

[swinburne.edu.my/es](https://swinburne.edu.my/es)

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SWINBURNE  
UNIVERSITY OF  
TECHNOLOGY

MALAYSIA • AUSTRALIA



# PROTECTING OUR ENVIRONMENT IS ONE OF THE GREATEST AND MOST CRUCIAL CHALLENGES WE FACE AS A SOCIETY.

The Environmental Science degree at Swinburne will equip you with the skills to maintain our ecosystem for future generations.

It will help you gain a solid grounding of scientific principles and sustainable development with a focus on water science, environmental biology, data science, mathematics and chemistry.

By the time you graduate, you will be able to analyse and understand our diverse ecosystems and is skilled at developing and implementing plans to protect and transform the ecosystem for the better.

## ENTRY REQUIREMENTS

- Pass STPM with a minimum of Grade C (GPA 2.00) in any two (2) subjects, or its equivalent, and possess SPM with three (3) credits including Mathematics, one Science subject and any other subject, Or
- Any equivalent qualification

## ENGLISH LANGUAGE REQUIREMENTS

- IELTS 6.0 (no individual band below 6.0)
- TOEFL (Internet based) of 75 (Reading no less than 18; Writing no less than 20)

## TUITION FEES

RM32,840 (Malaysian)  
RM41,920 (International)

## DURATION OF STUDY

3 years

## INTAKE

27 September

**80%**

of learning involves hands-on activities such as lab classes, field visits and field works

## BIODIVERSITY HOTSPOT

Sarawak's natural resources is the perfect backyard for environmental studies

## BIOINFORMATICS & BIG DATA

Understand and interpret biological and environmental data



## UNITS OF STUDY

### CORE UNITS

- BIO10001 Concepts of Biology
- CHE10001 Chemistry 1
- MTH10010 Essential Mathematics
- NPS10001 Introduction to e-Science
- NPS20005 Communication for Scientists\*
- NPS30003 Grand Challenges in Science\*
- PHY10001 Energy and Motion
- STA10003 Foundation of Statistics

\*Outcome unit - completion demonstrates the attainment of course learning outcomes

### ENVIRONMENTAL SCIENCE MAJOR

- BIO20002 The Microbial World
- BIO30005 Microbes in the Environment\*
- CHE10005 Consumer Chemistry
- ENV30001 Environmental Biology\*
- ENV30003 Environmental Management\*
- PEH20002 Food Science
- PEH20004 Built and Sustainable Communities
- PEH20006 Water Science

\*Outcome unit - completion demonstrates the attainment of course learning outcomes

### ELECTIVE UNITS

- BCH20001 Biochemistry of Genes and Proteins
- BCH20002 Introduction to Biochemistry
- BCH30003 Advanced Biochemistry
- BIO10003 Concepts of Biotechnology
- BIO30004 Molecular Biotechnology
- BIO30009 Applications of Bioinformatics
- HES2205 Aquatic Biotechnology
- HES2210 Industrial Microbiology
- HES3405 Natural Products
- NPS10002 Research and Development Project 1
- PEH20005 Communicable Disease Control

### OTHER RECOMMENDED ELECTIVES

- COM10007 Professional Communication Practice
- COS10009 Introduction to Programming
- COS10081 Introduction to Data Science
- COS20083 Advanced Data Analytics
- COS30045 Data Visualisation
- MDA10006 Innovation Cultures: Perspectives on Science and Technology
- MGT10001 Introduction to Management
- MKT10001 Fundamentals of Marketing