

COURSE PLANNER

Bachelor of Science (Environmental Science)

BA-SCENV2

Semester 2 | 2026

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However, this can be amended depending on unit availability, unit progression, timetabling and the semester in which you commenced your course.

Year One

Semester 1 Aug/Sept 2026		
Unit Code	Unit Name	Pre-requisites
BIO10001	Concepts of Biology	Nil
CHE10001	Chemistry 1	VCE 3 and 4 Chemistry or equivalent
NPS10003	Sustainability Challenges in Science	Nil
MTH10010	Essential Mathematics	MTH00007 or MTH00004 or VCE Maths or equivalent
MPU3312	Academic Integrity and Professional Conduct <i>(Malaysian and International Students)</i>	Nil

Summer Term January 2027 (Optional)		
Unit Code	Unit Name	Pre-requisites
MPU3212	Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i>	Nil

Semester 2 Feb/Mar 2027		
Unit Code	Unit Name	Pre-requisites
PHY10001	Energy and Motion	Nil
STA10003	Foundations of Statistics	Nil
BIO20002	The Microbial World	BIO10001
BCH20002	Introduction to Biochemistry	BIO10001 and CHE10001
SOC10005	Environment and Society: Problems and Solutions	Nil
MPU3172 [OR]	Aspirasi Negara Bangsa - BM <i>(Malaysian Students only)</i>	Nil
MPU3142	Malay Language Communication 2 <i>(International Students only)</i>	Nil

Year Two

Semester 3 Aug/Sept 2027		
Unit Code	Unit Name	Pre-requisites
NPS20011	Societal Challenges in Science	NPS10003 Sustainability Challenges in Science
CHE10005	Consumer Chemistry and Environmental Impact	CHE10001 or CEE20005 or equivalent
PEH20004	Built and Sustainable Communities	Nil
BCH20001	Biochemistry of Genes and Proteins	CHE10001 or CEE20005 and BCH20002
BIO10003	Concepts of Biotechnology	Nil
MPU3222	Career Development <i>(Malaysian and International Students)</i>	Nil

Semester 4 Feb/Mar 2028		
Unit Code	Unit Name	Pre-requisites
ENV30003	Environmental Management	100 credit points
ENV30001	Environmental Biology	BIO20002/BCH20002
PEH20002	Food Science	CHE10001 or CEE20005 or equivalent
SOC10005	Environment and Society: Problems and Solutions	NIL
BCH30003	Advanced Biochemistry	BCH20001
ECO10005	Economics for Business Decision	Nil
MKT10009	Marketing and the Consumer Experience	Nil
MPU3112	Kursus Integriti dan Antirasuah (KIAR) <i>(Malaysian and International Students)</i>	Nil

Winter Term June 2028		
Unit Code	Unit Name	Pre-requisites
NPS20012	Work Integrated Learning Placement and Professional Experience – Science	150 credit points

Year Three

Semester 5 Aug/Sept 2028		
Unit Code	Unit Name	Pre-requisites
BIO30005	Microbes in the Environment	BIO10001
PEH20006	Water Science	CHE10001 or CEE20005 or equivalent
BIO30004	Molecular Biotechnology	BCH20002 and BCH20001
BIO10003	Concepts of Biotechnology	Nil
BIO20008	Introduction to Tropical Ecology	87.5 Credit Points of Study
MPU3122 [OR]	Falsafah dan Cabaran Semasa – BM <i>(Malaysian Students only)</i>	Nil
MPU3152	Citra Malaysia <i>(International Students only)</i>	Nil

Summer Term January 2029 (If NPS20012 not completed in Summer Term 2028)		
Unit Code	Unit Name	Pre-requisites
NPS20012	Work Integrated Learning Placement and Professional Experience – Science	150 credit points

Semester 6 Feb/Mar 2029		
Unit Code	Unit Name	Pre-requisites
NPS30004	Grand Challenges in Science	225 credit points in BA-SCIBIO3 or BA-ENV2 and NPS20011
BIO20006	Industrial Microbiology	BIO10001
BCH30003	Advanced Biochemistry	BCH20001
BIO30009	Applications of Bioinformatics	BCH20002 and BCH20001
MPU3412	Service Learning <i>(Malaysian and International Students)</i>	Nil

Notes

Contact your Head of Department to update your Study Planner if you plan to take a Biotechnology Minor, have unit exemptions, or failed units.

Minor in Biotechnology option:

Students from BSc (Environmental Science) must enrol in the following units.

1.

BCH20002 Introduction to Biochemistry
2.

BCH20001 Biochemistry of Genes and Proteins
3.

Any 2 units from the following: BIO10003 Concepts of Biotechnology; BIO30004 Molecular Biotechnology; BIO30009 Applications of Bioinformatics; BCH30003 Advanced Biochemistry



How to use your Course Planner

Refer to the below table to help explain what units are required each semester throughout your course. The units in your planner are colour coded to assist you with mapping out your studies.

Course Information

Each unit is equivalent to 12.5 credit points. To qualify for the award of this course, students must complete 24 units (300 credit points) comprising of:

8 Core Units
100 credit points

A set of compulsory units you MUST complete as part of your Course.

8 Major Units
100 credit points

A structured set of compulsory units in a field of study specific to your Course.

8 Elective Units
100 credit points

An Elective is a standalone unit from any study area or a combination of for a Minor package.

Choose any 8 from the suggested elective units (includes compulsory NPS20012). Please check the pre-requisite requirements. You can also enrol in non-science elective units listed here: <https://www.swinburne.edu.my/courses/bachelor-science-environmental-science/>

Suggested Minor:
Minor in Biotechnology (refer to Notes)

Compulsory Elective unit:
NPS20012 Work-Integrated Learning Placement - Offer in Winter/Summer Term

- 2 Elective Units (25 credit points)
- An option for students and completing WIL placement is equivalent to two elective units exemption.
- Students need to complete at least 12 units (including current semester) if they want to enrol in WIL placement
- WIL placement can be taken in Year Three
- Email wil-pu@swinburne.edu.my for queries

General Studies/Mata Pelajaran Umum
0 credit points

Compulsory units to complete as a pre-requisite to graduate (see statement below)
It is advisable to enrol starting from the first semester of Year One. Email ltu@swinburne.edu.my for queries

Ministry of Education requires that all NEW Cohorts pursuing Degree program (International and Malaysian) students must take the MPU units as a prerequisite for the award of their degree.

- Malaysian students: Must take and pass the units as a prerequisite for the award of their degree.
- International students: Must take and pass the units as a prerequisite for the award of their degree