

COURSE PLANNER

Bachelor of Science (Biotechnology)

BA-SCIBIO3

Semester 1 | 2025

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.

SPINE

Year One

Semester 1 Feb/Mar 2025		
Unit Code	Unit Name	Pre-requisites
CHE10001	Chemistry 1	VCE 3 and 4 Chemistry or equivalent
PHY10001	Energy and Motion	Nil
STA10003	Foundation of Statistics	Nil
BIO10001	Concepts of Biology	Nil
MPU3273	Integrity and Anti-Corruption <i>(Malaysian and International Students)</i>	Nil
Winter Term June 2025 (Optional)		
MPU3212	Bahasa Kebangsaan A <i>(Malaysian students who do not have SPM Bahasa Melayu credit)</i>	Nil
BUS30025	Social Innovation Project (Subject to unit availability)	Nil
INB20009	Global and Digital Marketplaces Project (Subject to unit availability)	
		Nil
Semester 2 Aug/Sept 2025		
NPS10003	Sustainability Challenges in Science	Nil
MTH10010	Essential Mathematics	MTH00007 or MTH00004 or VCE Maths or equivalent
BIO10003	Concepts of Biotechnology	Nil
CHE10005	Consumers Chemistry	CHE10001 or CEE20005 or equivalent
MPU3193	Philosophy and Current Issues <i>(Malaysian and International Students)</i>	
Summer Term January 2026 (optional)		
MKT10009	Marketing and the Consumer Experience (Subject to unit availability)	Nil
ECO10005	Economics for Business Decision (Subject to unit availability)	Nil

Year Two

Semester 3 Feb/Mar 2026		
Unit Code	Unit Name	Pre-requisites
BCH20002	Introduction to Biochemistry	BIO10001 and CHE10001
BIO20002	The Microbial World	BIO10001
PEH20002	Food Science	CHE10001 or CEE20005 or equivalent
ENV30001	Environmental Biology	CHE10001 or CEE20005 and BIO10001, and any of these: CHE10002, BIO20002, BCH20002
MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
[OR]		
MPU3143	Malay Language Communication 2 (International Students Only)	Nil
Winter Term June 2026 (optional)		
NPS20008	- Completing WIL as an exemption to 2 electives or other electives	- Students need to complete at least 12 units to enrol Optional
		- WIL placement can be taken in Year Three
Semester 4 Aug/Sept 2026		
NPS20011	Societal Challenges in Science	NPS10001 Introduction to e-Science or NPS10003 Sustainability Challenges in Science
BCH20001	Biochemistry of Genes and Proteins	CHE10001 or CEE20005 and BCH20002
BIO30005	Microbes in the Environment	BIO10001
BIO20008	Introduction to Tropical Ecology (2026, 2028..* Subject to availability)	87.5 credit points of Study
MPU3412	Service Learning	Nil
Summer Term January 2027 (optional)		
NPS20008	- Completing WIL as an exemption to 2 electives or other elective	- Students need to complete at least 12 units to enrol Optional
		- WIL placement can be taken in Year Three

Year Three

Semester 5 Feb/Mar 2027		
Unit Code	Unit Name	Pre-requisites
BCH30003	Advanced Biochemistry	BCH20002 and BCH20001
BIO30009	Applications of Bioinformatics	BCH20002 and BCH20001
BIO30010	Natural Products	150 credit points
ENV30003	Environmental Management	100 credit points
Remarks: Student can complete 24 units of study at the end of Semester 5 if any 4 units from Winter Terms and Summer Terms are completed.		
Winter Term June 2027 (Optional)		
NPS20008	- Completing WIL as an exemption to 2 electives or other electives	- Students need to complete at least 12 units to enrol Optional
		- WIL placement can be taken in Year Three
Semester 6 Aug/Sept 2027		
NPS30004	Grand Challenges in Science	225 credit points of study
BIO30004	Molecular Biotechnology	BCH20002 and BCH20001
PEH20004	Built and Sustainable Communities	Nil
PEH20006	Water Science	CHE10001 or CEE20005 or equivalent

Notes

To complete your study planner, You will need to complete:

- 8 core units
- 8 Second-Major OR
- 8 electives



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 Second Major/Elective Units
100 credit points

A Second Major or a combination of Elective units. A Second Major is a set of 8 units from the selected study area. An Elective is a standalone unit from any study area.

General Studies/Mata Pelajaran Umum
0 credit points

Compulsory units to complete as a pre-requisite to graduate (see statement below)
Advisable to enrol in Year One
Email ltu@swinburne.edu.my for queries

Work-Integrated Learning Placement
(3 month) – Offer in Winter/Summer Term
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 if they want to enrol in WIL placement
WIL placement can be taken in Year Three
Email ltu@swinburne.edu.my for queries

All commencing students of Master, Degree, Diploma and Foundation programs will be automatically registered for the **Academic Integrity Training Module** in the first semester (Note: Students articulating from Foundation Studies are expected to undertake this unit as a refresher). There are 4 topics in this online module that are recommended for completion during Week 1-4 of your commencing study period. At the end of this module, students are required to complete a quiz comprised of 10 questions and achieve a score of at least 90%.

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

Blended units S1-2024

BIO10003 Concepts of Biotech
BIO30004 Molecular Biotech
BCH20001 Biochemistry of Genes & Proteins
NPS20011 Societal Challenges in Science - implemented blended
BIO20008 Introduction to Tropical Ecology

Blended units S1-2025

BIO20002 The Microbial World
BIO20006 Industrial Microbiology
BCH20002 Introduction to Biochemistry
NPS30004 Grand Challenges in Science
BCH30003 Advance Biochemistry
BIO30009 Application of Bioinformatics
BIO10001 Concepts of Biology
ENV30001 Environmental Biology

Work Integrated Learning Placement

NPS20008: Work Integrated Learning Placement – Science

- * An option for students and completing WIL placement is equivalent to two elective units exemption.
- * Students need to complete at least 12 units if they want to enrol in WIL placement
- * WIL placement can be taken in Year Three