



Bachelor of Science (Biotechnology)

BA-SCIBIO3

Semester 2 | 2022

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 Au	ıg/Sent 2022	
Unit Code	Unit Name	Pre-requisites
CHE10001	Chemistry 1	VCE 3 and 4 Chemistry or
	,	equivalent
MTH10010	Essential Mathematics	MTH00007 or MTH00004 or VCE
		Maths or equivalent
BIO10001	Concepts of Biology	Nil
NPS10001	Introduction to e-Science	Nil
Semester 2 Fel	b/Mar 2023	
PHY10001	Energy and Motion	Nil
STA10003	Foundation Statistics	Nil
BIO10003	Concepts of Biotechnology	Nil
BCH20002	Introduction to Biochemistry	BIO10001 and CHE10001
MPU3193	Philosophy and Current Issues	Nil
	(Malaysian and International Students)	
Winter Term Ju	•	
□MDU2212	Bahasa Kebangsaan A	Nil
□MPU3212	(Malaysian students who do not have SPM Bahasa Melayu credit)	INII
Elective		
Optonal	PEH20005 or other elective	Nil
Elective	BUS30025, INB20009 or other elective	
Optional	(Subject to unit availability)	Nil
- 1	()	

Year Two

Semester 3 Au	ıg/Sept 2023	
Unit Code	Unit Name	Pre-requisites
NPS20005	Communication for Scientists	100 credit points of study
BCH20001	Biochemistry of Genes and Proteins	CHE10001 or CEE20005 and BCH20002
Elective	CHE10005*, PEH20004*, PEH20006*, BIO20008, COS10009, COS10022, MGT10001, MKT10007, COM10007, or other elective	Nil
Elective	CHE10005*, PEH20004*, PEH20006*, BIO20008, COS10009, COS10022, MGT10001, MKT10007, COM10007, or other elective	Nil
□MPU3183	Penghayatan Etika dan Peradaban (Malaysian Students Only)	Nil
□MPU3143	Malay Language Communication 2 (International Students Only)	Nil
Summer Term	January 2025	
Elective	ECO10004, ENG10003 or other elective	Nil
Optional	(Subject to unit availability)	
Elective	ECO10004, ENG10003 or other elective	Nil
Optional	(Subject to unit availability)	
Semester 4 Fel		
BIO20002	The Microbial World	BIO10001
BCH30003	Advanced Biochemistry	BCH20002 and BCH20001
BIO30009	Applications of Bioinformatics	BCH20002 and BCH20001
Elective	NPS30002 or other elective	Please refer to Elective List
Winter Term Ju		
NPS20008	- Completing WIL as an exemption to 2 elect	
or other electives	- Students need to complete at least 12 units to enrol	

Year Three

Semester 5 Au	ug/Sept 2024			
Unit Code	Unit Name	Pre-requisites		
NPS30003	Grand Challenges in Science	200 credit points of study		
Optional				
BIO30004	Molecular Biotechnology	BCH20002 and BCH20001		
BIO30005	Microbes in the Environment	BIO10001		
Elective	CHE10005*, PEH20004*, PEH20006*, BIO20008, COS10009, COS10022, COS30045, MGT10001, MKT10007, COM10007, or other elective	Please refer to Elective List		
Elective Optional	CHE10005*, PEH20004*, PEH20006*, BIO20008, COS10009, COS10022, COS30045, MGT10001, MKT10007, COM10007, or other elective	Please refer to Elective List		
	COM10007, or other elective			

- WIL placement can be taken in Year Three

Remarks: Student can complete 24 units of study at the end of Semester 5 if completed 4 units from Winter Terms and Summer Terms.

NPS20008 or other elective Optional	- Completing WIL as an exemption to 2 electives - Students need to complete at least 12 units to enrol - WIL placement can be taken in Year Three	
Semester 6 1	Feb/Mar 2025	
NPS30003	Grand Challenges in Science	200 credit points of study
Elective	PEH20002*, ENV30003*, ENV30001*, BIO20006, BIO30010, COS10009, COS10022, COS20083 or other elective	Please refer to Elective List
Elective	PEH20002*, ENV30003*, ENV30001*, BIO20006, BIO30010, COS10009, COS10022, COS20083 or other elective	Please refer to Elective List
Elective	PEH20002*, ENV30003*, ENV30001*, BIO20006, BIO30010, COS10009, COS10022, COS20083 or other elective	Please refer to Elective List

Notes

To complete your study planner, please select either (as seen on Page 2 of this study planner):

- 1. One Second-Major (8 units) OR
- 2. 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

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 prerequisite 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

Email ltu@swinburne.edu.my for queries

All commencing students of Master, Degree, Diploma and Foundation courses 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 course (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

COURSE PLANNER

Second-Major Listing - ENVIRONMENTAL SCIENCE

Units offered in Aug/Sep*

Unit Code Unit Name CHE10005 Consumer Chemistry

Built and Sustainable Communities PFH20004

Water Science PEH20006

Units offered in Feb/Mar*

Unit Code Unit Name PEH20002

Food Science ENV30003

Environmental Management

ENV30001 Environmental Biology Pre-requisites

CHE10001 or CEE20005 or equivalent

CHE10001 or CEE20005 or equivalent

Pre-requisites

CHE10001 or CEE20005 or equivalent

100 credit points of study

CHE10001 or CEE20005 and BIO10001, and any of these:

CHE10002, BIO20002, BCH20002

And any two units of the following:

Units offered in Aug/Sep

Unit Code Unit Name

BIO20008 Introduction to Tropical Ecology Pre-requisites

87.5 credit points of study

Units offered in Feb/Mar

Unit Code Unit Name

NPS30002 Research Skills in Science Industrial Microbiology BIO20006 BIO30010 Natural Products

Units offered in Winter Term Unit Code Unit Name

PFH20005 Communicable Disease Control Pre-requisites

150 credit points of study BIO20002 (or as Co-Requisite) 150 credit points of study

Pre-requisites Nil

Elective Unit Listing (Full List)

Units offered in Aug/Sep

Unit Name Unit Code

Built and Sustainable Communities

Introduction to Tropical Ecology

Unit Couc
CHE10005
PEH20004
BIO20008
PEH20006
PEH20006
COS10009
COS10022
COS10022
COS10022
COS10024
Data Visualisation
Introduction to Management
COS10045
COS1005
COS105
COS1005
COS1005
COS1005
COS1005
COS1005
COS1005
COS1005
COS105
COS1005
COS1005
COS10 Professional Communication Practice Nil

Pre-requisites CHE10001 or CEE20005 or equivalent

87.5 credit points of study

CHE10001 or CEE20005 or equivalent

Nil Nil COS10009 Nil Nil

Nil

Units offered in Summer Term (if available)

ECO10004 Economic Principles Nil ENG10003 Mechanics of Structures Nil

Units offered in Feb/Mar

ACC10007

Unit Code Unit Name NPS30002 Research Skills in Science Industrial Microbiology BIO20006 Natural Products BIO30010

PEH20002 Food Science ENV30003 Environmental Management

ENV30001 Environmental Biology

COS10009 Introduction to Programming COS10022

Introduction to Data Science COS20083 Advanced Data Analytics

> Financial Information for Decision Making

INF10003 Introduction to Business Information

Systems

Pre-requisites

150 credit points of study BIO20002 (or as Co-Requisite) 150 credit points of study

CHE10001 or CEE20005 or equivalent

100 credit points of study

CHE10001 or CEE20005 and BIO10001, and any of these: CHE10002, BIO20002, BCH20002

Nil

COS10009 and COS10022

Nil

Unit offered in Winter Term (if available)

Pre-requisites

Unit Code Unit Name PEH20005 Communicable Disease Control Social Innovation Project BUS30025 Nil INB20009 Global and Digital Marketplaces Nil

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