Bachelor of Science (Environmental Science)

BA-SCENV2

Semester 1 | 2024

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

C	- I- /III	
	eb/Mar 2024	
BIO10001	Concepts of Biology	Nil
CHE10001	Chemistry 1	VCE 3 and 4 Chemistry or
		equivalent
PHY10001	Energy and Motion	Nil
STA10003	Foundation of Statistics	Nil
MPU3273	Integrity and Anti-Corruption	Nil
1011 05275	(Malaysian and International Students)	INII
Winter Term	June 2024	
	Bahasa Kebangsaan A	
MPU3212	(Nil
	Melayu credit)	
Elective	BUS30025, INB20009 or other elective	Nil
Optional	(Subject to unit availability)	
Elective	BUS30025, INB20009 or other elective	Nil
Optional	(Subject to unit availability)	
Semester 2 A	ug/Sept 2024	
Semester 2 A Unit Code	ug/Sept 2024 Unit Name	Pre-requisites
	<u> </u>	Pre-requisites Nil
Unit Code	Unit Name	
Unit Code NPS10003	Unit Name Sustainability Challenges in Science	Nil
Unit Code NPS10003	Unit Name Sustainability Challenges in Science	Nil MTH00007 or MTH00004 or VCE
Unit Code NPS10003 MTH10010	Unit Name Sustainability Challenges in Science Essential Mathematics	Nil MTH00007 or MTH00004 or VCE Maths or equivalent
Unit Code NPS10003 MTH10010	Unit Name Sustainability Challenges in Science Essential Mathematics	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or
Unit Code NPS10003 MTH10010 CHE10005 PEH20004	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil
Unit Code NPS10003 MTH10010 CHE10005	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent
Unit Code NPS10003 MTH10010 CHE10005 PEH20004 MPU3193	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities Philosophy and Current Issues	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil
Unit Code NPS10003 MTH10010 CHE10005 PEH20004 MPU3193	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities Philosophy and Current Issues (Malaysian and International Students)	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil
Unit Code NPS10003 MTH10010 CHE10005 PEH20004 MPU3193 Summer Term	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities Philosophy and Current Issues (Malaysian and International Students) January 2025	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil
Unit Code NPS10003 MTH10010 CHE10005 PEH20004 MPU3193 Summer Term Elective	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities Philosophy and Current Issues (Malaysian and International Students) January 2025 ECO10005, MKT10009 or other elective	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil
Unit Code NPS10003 MTH10010 CHE10005 PEH20004 MPU3193 Summer Term Elective Optional	Unit Name Sustainability Challenges in Science Essential Mathematics Consumer Chemistry Built and Sustainable Communities Philosophy and Current Issues (Malaysian and International Students) January 2025 ECO10005, MKT10009 or other elective (Subject to unit availability)	Nil MTH00007 or MTH00004 or VCE Maths or equivalent CHE10001 or CEE20005 or equivalent Nil Nil

Year Two

Semester 3 Fe	eb/Mar 2025	
BIO20002	The Microbial World	BIO10001
ENV30003	Environmental Management	100 credit points of study
PEH20002	Food Science	CHE10001 or CEE20005 or
		equivalent
SOC10005	Environment and Society: Problems and	Nil
	Solutions (Recommended. 2025 only)	
MPU3183	Penghayatan Etika dan Peradaban	Nil
WI 03103	(Malaysian Students Only)	
MPU3143	Malay Language Communication 2	Nil
Minter Terms	(International Students Only)	
Winter Term		ives.
	- Completing WIL as an exemption to 2 elect.	
or other electives	- Students need to complete at least 12 units	to enrol
Optional	- WIL placement can be taken in Year Three	
Semester 4 A Unit Code	ug/Sept 2025 Unit Name	
Unit Code	Unit Name	Pre-requisites
NDC20011	Constant Challes and to Catalana	NDC10001 lister durations to a
NPS20011	Societal Challenges in Science	NPS10001 Introduction to e-
NPS20011	Societal Challenges in Science	Science or NPS10003
NPS20011	Societal Challenges in Science	Science or NPS10003 Sustainability Challenges in
	ŭ	Science or NPS10003 Sustainability Challenges in Science
NPS20011 PEH20006	Societal Challenges in Science Water Science	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or
PEH20006	Water Science	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent
	Water Science BCH20001, BIO10003, COS10009,	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or
PEH20006	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009,	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent
PEH20006 Elective	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List
PEH20006	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009,	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent
PEH20006 Elective	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009,	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List
PEH20006 Elective Elective	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List
PEH20006 Elective Elective Summer Term	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective January 2026	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List Please refer to Elective List
PEH20006 Elective Elective Summer Term NPS20008	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective January 2026 - Completing WIL as an exemption to 2 elect	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List Please refer to Elective List
PEH20006 Elective Elective Summer Term	Water Science BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective BCH20001, BIO10003, COS10009, COS10022, MGT10009, MKT10009, COM10007, or other elective January 2026	Science or NPS10003 Sustainability Challenges in Science CHE10001 or CEE20005 or equivalent Please refer to Elective List Please refer to Elective List



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 prerequisite to graduate (see statement below) Advisable to enrol in Year One Email <u>Itu@swinburne.edu.my</u> 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 <u>ltu@swinburne.edu.my</u> for queries
All commencing students of Master,

An commercing 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%.

Year Three

Semester 5 Feb/Mar 2026			
	Unit Code	Unit Name	Pre-requisites
	NPS30004	Grand Challenges in Science	200 credit points of study
	ENV30001	Environmental Biology	CHE10001 or CEE20005 and BIO10001, and any of these: CHE10002, BIO20002, BCH20002
	Elective	BCH20002, BIO30010, BIO30009, BCH30003, COS10009, COS10022, COS20083 ACC10007, INF10024 or other elective	Please refer to Elective List
	Elective	BCH20002, BIO30010, BIO30009, BCH30003, COS10009, COS10022, COS20083 ACC10007, INF10024 or other elective	Please refer to Elective List

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

Winter Term	July 2026	
NPS20008	- Completing WIL as an exemption to 2 elect	ives
or other electives	ectives - Students need to complete at least 12 units to enrol	
Optional	- WIL placement can be taken in Year Three	
Semester 6 A	ug/Sept 2026	
BIO30005	Microbes in the Environment	BIO10001
BIO20008	Introduction to Tropical Ecology	Please refer to Elective List
	(Recommended, 2026 only)	
COM10007	Professional Communication Practice	Please refer to Elective List
	(Recommended)	
MDA10006	Innovation Cultures: Perspectives on	Please refer to Elective List
	Science and Technology (Recommended)	

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

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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

Elective Unit Listing (Full List)

<u>Units offered i</u>	n Feb/Mar	
Unit Code	Unit Name	Pre-requisites
SOC10005	Environment and Society: Problems and	Nil
	Solutions (New, Recommended. 2025	
	only)	
BIO20006	Industrial Microbiology (2025 only)	BIO20002 (pre or co-requisit
BIO30010	Natural Products (2026 only)	150 credit points (To be revis
BCH20002	Introduction to Biochemistry	BIO10001 and CHE10001
BIO30009	Applications of Bioinformatics	BCH20002 and BCH20001
BCH30003	Advanced Biochemistry	BCH20002 and BCH20001
COS10009	Introduction to Programming	Nil
COS10022	Introduction to Data Science	Nil
COS20083	Advanced Data Analytics	COS10009 and COS10022
ACC10007	Financial Information for Decision	Nil
	Making	
INF10024	Business Digitalisation	Nil
Unit offered in	Winter Term (if available)	
Unit Code	Unit Name	Pre-requisites
	Carial Japavatian Draiast	Nil

BUS30025 Social Innovation Project Nil INB20009 Global and Digital Marketplaces Nil

Units offered in Aug/Sep

Unit Code	Unit Name	Pre-requisites
BIO10003	Concepts of Biotechnology	Nil
BIO30004	Molecular Biotechnology	BCH20002 and BCH20001
BIO20008	Introduction to Tropical Ecology (2026 only)	87.5 credit points of study
BCH20001	Biochemistry of Genes and Proteins	CHE10001 or CEE20005 and BCH20002
COS10009	Introduction to Programming	Nil
COS10022	Introduction to Data Science	Nil
COS30045	Data Visualisation	COS10009
MGT10009	Contemporary Management Principles	Nil
MKT10009	Marketing and the Consumer Experience	Nil
COM10007	Professional Communication Practice (<i>Recommended</i>)	Nil
MDA10006	Innovation Cultures: Perspectives on Science and Technology (<i>Recommended</i>)	Nil

Units offered in Summer Term (if available)

Economics for Business Decision Making Nil ECO10005 MKT10009 Marketing and the Consumer Nil Experience

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

BIO20002 (pre or co-requisite)
150 credit points (To be revised)
BIO10001 and CHE10001
BCH20002 and BCH20001
BCH20002 and BCH20001
Nil
Nil
COS10009 and COS10022
Nil