SWIN BUR NE · SWINBURNE UNIVERSITY OF TECHNOLOGY

Bachelor of Engineering (Honours)/Bachelor of Science
BB-ENGSC1
Software major
Semester 2 Intake

Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However this can be amended depending on unit availability, prerequisite requirements and the semester in which you commenced your course. Changes to this planner may extend the duration of your course.

Year One

	Semester 2	
	COS10009 Introduction to Programming	+12.5
	ENG10001 Engineering Design and innovation	+12.5
	MTH00007* Preliminary Mathematics	+12.5
	PHY10001 Energy and Motion	+12.5

* Students who have completed VCE Mathematics Methods or Specialist Mathematics or equivalent are highly encouraged to complete MTH00007 Preliminary Mathematics as per their course plan. However, students may exercise the option of applying for a preclusion of this unit to do an elective unit instead. Students can do so via the enrolment amendment form found here and ensuring evidence of completion of VCE Mathematics Methods or Specialist Mathematics or equivalent is included in the application. Mathematics or equivalent is included in the application.

Year Two

Semester 1		Semester 2	
BIO10001 Concepts of Biology	+12.5	COS10025 Technology in an Indigenous Context Project	+12.5
ENG10002 Engineering Materials	+12.5	MTH10013 Linear Algebra and Applications	+12.5
ENG10003 Engineering Mechanics	+12.5	Science Major Unit	+12.5
MTH10012 Calculus and Applications	+12.5	Science Major Unit	+12.5

Optional

Professional Placement	
You can choose to add an additional 6 month or 1 year placement to your course. The maximum credit points to complete your course will be increased to accommodate the Professional Placement	+37.5- +100

Year Three

Semester 1		Semester 2	
CHE10011 Chemistry 1 or CHE10004 Introduction to Chemistry	+12.5	NPS20011 Societal Challenges in Science	+12.5
Science Major Unit	+12.5	ENG20009 Engineering Technology Inquiry Project	+12.5
Science Major Unit	+12.5	ENG20010 Engineering Technology Design Project	+12.5
Science Major Unit	+12.5	TNE20003 Internet and Cybersecurity for Engineering Applications	+12.5
EAT20008 Professional Experience in Engineering	+0		

Year Four

Semester 1		Semester 2	
COS20007 Object Oriented Programming	+12.5	COS30017 Software Development for Mobile Devices	+12.5
COS20019 Cloud Computing Architecture	+12.5	ENG40011 Enginnering Technology Innovation Project	+12.5
ENG30002 Engineering Technology Sustainability Project	+12.5	SWE30009 Software Testing and Reliability	+12.5
TNE30024 Deploying Secure Engineering Applications Online	+12.5	Science Major Unit	+12.5

Year Five

Semester 1		Semester 2	
COS30008 Data Structures and Patterns	+12.5	EAT40005 Engineering Technology Project A (ENG/CS)	+12.5
COS30019 Introduction to Artificial Intelligence	+12.5	COS40003 Concurrent Programming	+12.5
COS30043 Interface Design and Development	+12.5	SWE40006 Software Deployment and Evolution	+12.5
SWE30003 Software Architectures and Design	+12.5	Science Major Unit	+12.5

Year Six

Semester 1	
EAT40006 Engineering Technology Project B (ENG/CS)	+12.5
NPS30004 Grand Challenges in Science	+12.5
COS40007 Artificial Intelligence for Engineering	+12.5
Science Major Unit	+12.5

How to use your course planner

The units in your planner are colour coded to assist you with mapping out your studies. Refer to the boxes below for an overview of your course requirements.

Course Information

Course 500 Credit Points

Core units
187.5 Credit points

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

First Major units
212.5 Credit points

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

Bachelor of Science Major
100 Credit point

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

Work Integrated Learning

A Professional Placement is a Work Integrated Learning (WIL) option. You can apply for a Professional Placement during your second year. More information on Professional Placement and other WIL options at **Work Integrated Learning**

FAQs
How can I find more information about my course
Visit **Bachelor of Engineering (Honours)/Bachelor of Science**

Where can I find out more about individual unit information?
Visit the **Single Unit Search** page to search for additional unit content.

What's a full-time study load?
100 credit points (8 units per year)

What's a part-time study load?
50 credit points (4 units per year)

How can I plan my timetable?
Check the **University Timetable Planner** before enrolling into units.