SWINBURNE UNIVERSITY OF TECHNOLOGY

Bachelor of Engineering (Honours)/Bachelor of Computer Science
BB-ENGCS1
Biomedical major

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 1		Semester 2	
ENG10001 Humanitarian Engineering Design Project	+12.5	COS10025 Technology in an Indigenous Context Project	+12.5
ENG10002 Engineering Materials	+12.5	ENG10003 Engineering Mechanics	+12.5
COS10009 Introduction to Programming	+12.5	MTH10013 Linear Algebra and Applications	+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	
MTH10012 Calculus and Applications	+12.5	BIO10004 Anatomy and Physiology	+12.5
TNE10006 Networks and Switching	+12.5	BME20001 Biomaterials and Biomechanics	+12.5
COS10004 Computer Systems	+12.5	ENG20009 Engineering Technology Inquiry Project	+12.5
COS10026 Computing Technology Inquiry Project	+12.5	MTH20017 Mathematical Methods and Statistics for Engineering	+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	
EEE20006 Circuits and Electronics 1	+12.5	COS30020 Advanced Web Development	+12.5
ENG20010 Engineering Technology Design Project	+12.5	MBP30008 Clinical Practicum 2 - Cardio	+12.5
MBP20009 Medical Imaging Systems	+12.5	TNE20003 Internet and Cybersecurity for Engineering Applications	+12.5
MBP20011 Clinical Practicum 1-Neuro	+12.5	Computer Science Major Unit	+12.5
EAT20008 Professional Experience in Engineering	+0		

Year Four

Semester 1		Semester 2	
COS20007 Object Oriented Programming	+12.5	BME40005 Advanced Medical Imaging Systems	+12.5
BME40004 Medical and Regulatory Practice	+12.5	COS40007 Artificial Intelligence for Engineering	+12.5
ENG30002 Engineering Technology Sustainability Project	+12.5	EEE40017 Machine Vision	+12.5
Computer Science Major Unit	+12.5	ENG40011 Engineering Technology Innovation Project	+12.5

Year Five

Semester 1		Semester 2	
EAT40005 Engineering Technology Project A	+12.5	EAT40006 Engineering Technology Project B	+12.5
Computer Science Major Unit	+12.5	Computer Science Major Unit	+12.5
Computer Science Major Unit	+12.5	Computer Science Major Unit	+12.5
Computer Science Major Unit	+12.5	Computer 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 Computer 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.