Course enrolment planner

# Bachelor of Engineering (Honours) / Bachelor of Arts  BB-ENGART
Software 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.

## 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.

**Engineering Major**
212.5 Credit points
A set of compulsory units you **MUST** complete as part of your Course.

**Arts Major units**
100 Credit points
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 including all Majors
Visit **Bachelor of Eng/ Bachelor of Arts**

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.

## Year One

| Semester 1 | | Semester 2 | |
|---|---|---|---|
| ENG10001 Engineering Design and Innovation | +12.5 | COS10009 Introduction to Programming | +12.5 |
| ENG10002 Engineering Materials | +12.5 | COS10025 Technology in an Indigenous Context Project | +12.5 |
| MTH00007* Preliminary Mathematics | +12.5 | ENG10003 Engineering Mechanics | +12.5 |
| PHY10001 Energy and Motion | +12.5 | MTH10013 Linear Algebra and Applications | +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 | COS20019 Cloud Computing Architecture | +12.5 |
| COS20007 Object Oriented Programming | +12.5 | ENG20010 Engineering Technology Design Project | +12.5 |
| ENG20009 Engineering Technology Inquiry Project | +12.5 | TNE20003 Internet and Cybersecurity for Engineering Applications | +12.5 |
| Arts Major Unit | +12.5 | Arts Major Unit | +12.5 |

## Year Three

| Semester 1 | | Semester 2 | |
|---|---|---|---|
| COS30008 Data Structures and Patterns | +12.5 | COS30017 Software Development for Mobile Devices | +12.5 |
| COS30019 Introduction to Artificial Intelligence | +12.5 | ENG40011 Engineering Technology Innovation Project | +12.5 |
| COS30043 Interface Design and Development | +12.5 | SWE30009 Software Testing and Reliability | +12.5 |
| ENG30002 Engineering Technology Sustainability Project | +12.5 | Arts Major Unit | +12.5 |

| | |
|---|---|
| EAT20008 Professional Experience in Engineering | +0 |

| 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 Four

| Semester 1 | | Semester 2 | |
|---|---|---|---|
| ART10002 Technology and Society | +12.5 | ART20003 Skills and Strategies for Social Change | +12.5 |
| COS40007 Artificial Intelligence for Engineering | +12.5 | COS40003 Concurrent Programming | +12.5 |
| SWE30003 Software Architectures and Design | +12.5 | SWE40006 Software Deployment and Evolution | +12.5 |
| TNE30024 Deploying Secure Engineering Applications Online | +12.5 | Arts Major Unit | +12.5 |

## Year Five

| Semester 1 | | Semester 2 | |
|---|---|---|---|
| ART30004 Changemakers in Action | +12.5 | ART30005 BA Professional Practice | +12.5 |
| ENG40005 Final Year Capstone Project 1 | +12.5 | ENG40006 Final Year Capstone Project 2 | +12.5 |
| Arts Major Unit | +12.5 | Arts Major Unit | +12.5 |
| Arts Major Unit | +12.5 | Arts Major Unit | +12.5 |