

Welcome to the Uni Prep program!

Engineering stream information

In the Engineering stream, students complete a combination of Enabling courses and Engineering faculty courses.

Please refer to the table below to see which courses you enrol in each term.

Engineering Stream Details (full time)			UOC (Units of Credit)
Term 1	Mandatory	University Orientation & Study Skills 1 (REGZ9000)	6 UOC
Term 1	Mandatory	Mathematics Skills 1 (REGZ9070)	6 UOC
Term 2	Mandatory	Communicating in Engineering (ENGG0360)	6 UOC
Term 2	Mandatory	Mathematics Skills 2 (REGZ9072)	6 UOC
Term 3	Mandatory	Computing for Engineers (ENGG1811)	6 UOC
Term 3	Mandatory	Mathematics Skills 3 (REGZ9073)	6 UOC

UNSW Uni Prep Course Components

Term 1

University Orientation & Study Skills 1 (REGZ9000)

Teaching Format

1 x 1 hour lectures per week (1 hour total)

1 x 2 hour tutorials per week (2 hours total)

This course is a foundational academic skills course that covers reading, writing, planning, speaking and researching. It focuses on generic academic skills and uses essay writing as a basis for course design and assessments. While it is an academic skills focused course, the theme will be Technology.

Mathematics Skills 1 (REGZ9070)

Teaching Format

2 x 1 hour lectures per week (2 hours total)

2 x 2 hour tutorials per week (4 hours total)

The Mathematics Skills courses (REGZ9070, REGZ9072 & REGZ9073) are designed to provide a level of competency in mathematics for students who have not studied HSC Mathematics (or equivalent) at high school or have not met the assumed level of knowledge of their intended degree and who are enrolled in the Engineering stream of the University Preparation Program (Uni Prep). The aim is to start at the end of Year 10 Mathematics (Stage 5.3 pathway) and help students to progress to the assumed knowledge for first year undergraduate degree courses.



Term 2

Communicating in Engineering (ENGG0360)

Teaching Format

TBC

This course is designed to introduce communication strategies in the context of Engineering and build academic skills that will help you to progress through university. It will introduce you to the standard practices of an Engineering professional. Written documents are at the core of professional activity, and these must be clear and concise. Sound verbal attributes are also imperative in business. To this end, conventions are important for you to communicate effectively to a specific audience.

Students will improve their ability to collect and build ideas into coherent arguments, learn how to construct texts that demonstrate critical thinking, and develop their communication skills (speaking, listening, writing & reading), in preparation for subsequent study in a professional context.

Mathematics Skills 2 (REGZ9072)

Teaching Format

2 x 1 hour lectures per week (2 hours total)

2 x 2 hour tutorials per week (4 hours total)

The Mathematics Skills courses (REGZ9070, REGZ9072 & REGZ9073) are designed to provide a level of competency in mathematics for students who have not studied HSC Mathematics (or equivalent) at high school or have not met the assumed level of knowledge of their intended degree and who are enrolled in the Engineering stream of the University Preparation Program (Uni Prep).

The aim is to start at the end of Year 10 Mathematics (Stage 5.3 pathway) and help students to progress to the assumed knowledge for first year undergraduate degree courses.

Computing for Engineers (ENGG1811)

Teaching Format

Computing is an integral part of modern engineering. Computing is used in the design, automation, experimentation, monitoring, diagnosis, data collection, data analysis, visualisation and many other aspects of engineering. A very important skill for engineers is to be able to use computers to help them to solve problems efficiently. The aim of this course is to give an introduction to computing for engineers with an emphasis on computational problem solving. In order to realise this aim, the students will learn to use the Python programming language and some of its many packages to solve problems. Since the course is designed primarily for engineers, the computing examples are often presented together with an engineering context to help the students to appreciate the applications of computing in engineering. This course also includes a minor component in Matlab and spreadsheet.

Mathematics Skills 3 (REGZ9073)

Teaching Format

2 x 1 hour lectures per week (2 hours total)

2 x 2 hour tutorials per week (4 hours total)

The Mathematics Skills courses (REGZ9070, REGZ9072 & REGZ9073) are designed to provide a level of competency in mathematics for students who have not studied HSC Mathematics (or equivalent) at high school or have not met the assumed level of knowledge of their intended degree and who are enrolled in the Engineering stream of the University Preparation Program (Uni Prep).

The aim is to start at the end of Year 10 Mathematics (Stage 5.3 pathway) and help students to progress to the assumed knowledge for first year undergraduate degree courses.



Further questions? Need guidance? Considering part-time study?

Email us at uniprep@unsw.edu.au