



UNSW College Pre-Masters

(Engineering and Information Technology)

Subject Selection List

All Pre-Masters students undertaking an Engineering or Information Technology specialisation will need to undertake a set of compulsory Core Subjects as well as Elective Subjects based on their preferred master's degree. See the list below to guide your subject selection.

Compulsory Subjects (all students must undertake these subjects)

1. Innovation & Entrepreneurship
2. Academic Research Literacy Skills
3. Engineering Project Management

Elective Option 1 (students with an English score of IELTS 6.0 or equivalent, must choose this elective)

1. Academic English for Higher Studies
 - *With Elective Option 1, students are eligible for **6 units of credit** (1 course) advanced standing towards their UNSW master's degree on successful completion of the Pre-Masters Program.*

Elective Option 2 (students with an English score of IELTS 6.5 or equivalent, must choose this elective)

- You must choose an elective from the list below depending on your preferred degree.
- *With Elective Option 2, students are eligible for **12 units of credit** (2 courses) advanced standing towards their UNSW master's degree on successful completion of the Pre-Masters Program.*

UNSW Master's Program	UNSW Master's Degree Specialisations	Pre-Masters Elective Choice (Option 2)	
		Economic Decision Analysis in Engineering	Principles of Programming
Master of Engineering (8621)	Biomedical Engineering (8621)	✓	
	Electrical Engineering (8621)	✓	
	Mechanical Engineering (8621)	✓	
	Renewable Energy (8621)	✓	
	Telecommunications (8621)	✓	

UNSW Master's Program	UNSW Master's Degree Specialisations	Pre-Masters Elective Choice (Option 2)	
		Economic Decision Analysis in Engineering	Principles of Programming
Master of Information Technology (8543)	Artificial Intelligence (8543)		✓
	Information Technology (8543)		✓
	Database Systems (8543)		✓
	Data Science and Engineering (8543)		✓
	Internetworking (8543)		✓
	Cyber Security Engineering (8543)		✓
Master of Engineering Science (8338)	Biomedical Engineering (8338)	✓	
	Chemical Engineering (8338)	✓	
	CVENXT Civil Engineering (8338)	✓	
	Environmental Engineering (8338)	✓	
	Geotechnical Engineering and Engineering Geology (8338)	✓	
	Project Management (8338)	✓	
	Structural Engineering (8338)	✓	
	Transport Engineering (8338)	✓	
	Water Engineering: Catchments to Coasts (8338)	✓	
	Water, Wastewater and Waste Engineering (8338)	✓	
	Electrical Engineering (8338)	✓	
	Energy Systems (8338)	✓	
	Systems and Control (8338)	✓	
	Space Systems Engineering (8338)	✓	
	Sustainable Systems (8338)	✓	
	Food Process Engineering (8338)	✓	
	Mechanical and Advanced Manufacturing Engineering (8338)	✓	
	Robotics (8338)	✓	
	Photovoltaics and Solar (8338)	✓	
	Renewable Energy (8338)	✓	
Telecommunications (8338)	✓		

Other master's degree specialisations

For Master of Engineering specialisations (Civil Engineering (8621), Environmental Engineering (8621) and Mining Engineering (8621)) and the Master of Engineering Science specialisation (Nuclear Engineering (8338)) students who successfully complete the Pre-Masters Program will be admitted to the master's degree but will not receive any recognition of prior learning (advanced standing).