

H1287 Bachelor of Engineering Honours (Environmental Engineering)

Academic Chair: For 1st year & Advanced Standing enquiries: [Sheikh Izzal Azid](#) **Start Date:** Semester 2 2026
 For 2nd, 3rd and 4th year enquiries: [Linda Li](#)

Major in Environmental Engineering

Year	Semester 1 Units	CP	Semester 2 Units	CP
	Year 1 – 2026			MAS164 Fundamentals of Mathematics ¹
			ENG101 Engineering Fundamentals	3
			ENG102 Engineering Design for Sustainability	3
			ENV102 Foundations of the Environment	3
			Total	12
Year 2 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ENG109 Engineering Computing Systems	3	ENG221 Pollution and Its Control	3
	MAS182 Introductory Calculus with Applications	3	Specified Elective (or Major Specified Elective)	3
	PEN120 General Physics ²	3	ENG103 Principles of Engineering	3
	CHE140 Fundamentals of Chemistry	3	MAS161 Calculus and Matrix Algebra	3
	Total	12	Total	12
Year 3 - 2028	Semester 1 Units	CP	Semester 2 Units	CP
	MAS220 Mathematical Methods and Multivariable Calculus	3	Specified Elective	3
	ENG341 Water Conservation and Auditing	3	ENG216 Dynamic Systems and Control	3
	ENG215 Systems Engineering	3	ENG300 Environmental Technology for Sustainability	3
	Major Specified Elective (or Specified Elective)	3	Specified Elective	3
	Total	12	Total	12
Year 4 - 2029	Semester 1 Units	CP	Semester 2 Units	CP
	ENG571 Hydrology and Water Cycle Management	3	ENG572 Design of Water Treatment Unit Operations	3
	ENG573 Integrated Waste Management for Resource Recovery	3	ENG336 Engineering Finance, Management and Law	3
	ENG570 Circular Economy and Innovation	3	Specified Elective	3
	Specified Elective	3	ENG470 Engineering Honours Thesis (H) ³	3
			ENG100 Engineering Professional Practice (H)	0
	Total	12	Total	12
Year 5 - 2030	Semester 1 Units	CP	Semester 2 Units	CP
	Discovery Study Unit (see here for options) ⁴	3		
	ENG470 Engineering Honours Thesis (H)	9		
	ENG100 Engineering Professional Practice (H)	0		
	Total	12	Total	

TOTAL CREDIT POINTS 96

¹ Check the Enrolment Rules for MAS164 in the [Handbook](#). If you are ineligible to enrol, you should consult the Academic Chair.

² Check the Enrolment Rules for PEN120 in the [Handbook](#). If you are ineligible to enrol, you should consult the Academic Chair.

³ Note that enrolling in ENG470 requires that the full unit fee (12 CP) be paid at the beginning of the teaching period.

⁴ Complete 1 x 200-level Discovery Study Unit.

Major Specified Elective	
ENV243 Water and Earth Science (S1) ENV242 Atmospheric and Climate Science (S1)	ENV331 Environmental Management (S2) ENV303 GIS for Environmental Management and Planning (S2)
Specified Elective	
ENG344 Electromechanical Energy Conversion (S1) ENG208 Fundamentals of DC Circuits (S1) ENG251 PLC Systems (S1) ENG391 Process Control (S1) ENG392 SCADA and Instrumentation Systems (S1)	ENG231 Renewable Energy Systems (S2) ENG209 Fundamentals of AC Circuits (S2) ENG252 Embedded Systems (S2) ENG381 Electrical Power Systems (S2) ENG382 Power Electronics (S2) BUS368 Cultures of Innovation (S2)
Notes: <ol style="list-style-type: none"> 1. A maximum of 10 x 100-level units is completed as a part of the course. 2. Only 1 x Major Specified Elective is completed as a part of the course. 3. Review the corequisites and prerequisites of specified elective units carefully. 4. Any other elective units are subject to approval from the Academic Chair. 	
ENG100 Engineering Professional Practice (0 CP)	
Bachelor of Engineering Honours students should complete 450 hours of approved work experience to complete the requirements of the course.	

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). Students should note that due to unit prerequisites, commencing study in Semester 2 may extend the duration of the course. This information is correct as at 06/06/2026.