

H1287 - Bachelor of Engineering Honours (Environmental Engineering)

Academic Chair: Dr Linda Li (L.li@murdoch.edu.au)

Start Date: Semester 2 2025

Year 1 – 2025	Semester 1 Units			Semester 2 Units		CP
				MAS164 Fundamentals of Mathematics		3
				ENG101 Engineering Fundamentals		3
				ENG102 Engineering Design for Sustainability		3
				ENV102 Foundations of the Environment		3
				Total		12
Year 2 – 2026	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
	ENG103 Principles of Engineering		3	PEN120 General Physics		3
	CHE140 Fundamentals of Chemistry		3	MAS161 Calculus and Matrix Algebra		3
	Total		12	Total		12
Year 3 - 2027	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 - 2028	Semester 1 Units		CP	Semester 2 Units		CP
	ENG571 Hydrology & 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
				ENG100 Engineering Professional Practice (H)		0
Total		12	Total		12	
Year 5 - 2029	Semester 1 Units		CP	Semester 2 Units		CP
	Specified Elective		3			
	ENG470 Engineering Honours Thesis (H)		9			
	ENG100 Engineering Professional Practice (H)		0			
	Total		12	Total		

TOTAL CREDIT POINTS 96*

*Please note that students can only have up to 10 x 100-level units towards their 96 cps.

Semester 2 notes

For MAS164, Students who have achieved a final scaled score of 55% or more in ATAR Mathematics Specialist, WACE Mathematics Specialist 3C/3D or TEE Calculus may not enrol in this unit and should consult their Academic Chair.

For PEN120, students who have achieved a final scaled score of 60% or more in ATAR Physics or WACE Physics 3A/3B may not enrol in this unit and should consult their Academic Chair.

Students enrolling in ENG470 (H) need to pay the full unit fee (12 cps) at the commencement of the teaching period.

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The **Major Specified Elective unit** must be selected from: ENV243 Water and Earth Science (S1); ENV242 Atmospheric and Climate Science (S1); ENV331 Environmental Management (S2); ENV303 GIS for Environmental Management and Planning (S2).

Spine - 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 15/06/25.