

Bachelor of Engineering Honours H1287 (Environmental Engineering)

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

Start Date: Semester 1 2025

Year 1 – 2025	Semester 1 Units	CP	Semester 2 Units	CP
	MAS164 Fundamentals of Mathematics	3	MAS182 Introductory Calculus with Applications	3
	ENG101 Engineering Fundamentals	3	ENG102 Engineering Design for Sustainability	3
	ENG103 Principles of Engineering	3	PEN120 General Physics	3
	CHE140 Fundamentals of Chemistry	3	ENV102 Foundations of the Environment	3
	Total	12	Total	12
Year 2 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	MAS161 Calculus and Matrix Algebra	3	Specified Elective	3
	ENG109 Engineering Computing Systems	3	ENG216 Dynamic Systems and Control	3
	ENG215 Systems Engineering	3	ENG221 Pollution and Its Control	3
	Major Specified Elective or Specified Elective	3	Specified Elective or Major Specified Elective	3
	Total	12	Total	12
Year 3 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	MAS220 Mathematical Methods and Multivariable Calculus	3	ENG300 Environmental Technology for Sustainability	3
	ENG341 Water Conservation and Auditing	3	ENG336 Engineering Finance, Management and Law	3
	ENG570 Circular Economy and Innovation	3	BUS368 Cultures of Innovation	3
	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	Specified Elective	3
	ENG573 Integrated Waste Management for Resource Recovery	3	ENG572 Design of Water Treatment Unit Operations	3
	ENG470 Engineering Honours Thesis (Y)	6	ENG470 Engineering Honours Thesis (Y)	6
	ENG100 Engineering Professional Practice (Y)	0	ENG100 Engineering Professional Practice (Y)	0
	Total	12	Total	12

TOTAL CREDIT POINTS 96

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

Semester 1 notes	Semester 2 notes
1. 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.	1. 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.
<p>The Specified Elective units could 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).</p> <p>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).</p> <p>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.</p>	

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 27/11/24.