

# Bachelor of Engineering Honours H1287 (Environmental Engineering)

Academic Chair: Assoc Prof Martin Anda ( [m.anda@murdoch.edu.au](mailto:m.anda@murdoch.edu.au) )

Start Date:

Semester 1 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
	MAS164 Fundamentals of Mathematics	3	MAS182 Applied Mathematics	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	<b>ENV102 Foundations of the Environment</b>	3	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	ENG109 Engineering Computing Systems	3	(Engineering Elective)	3
MAS161 Calculus and Matrix Algebra	3	<b>ENG221 Pollution and Its Control</b>	3	
ENG215 Systems Engineering	3	ENG216 Dynamic Systems and Control	3	
<b>ENV243 Water and Earth Science</b>	<b>3</b>	<b>ENG300 Environmental Technology for Sustainability</b>	<b>3</b>	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	
Year 3 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	MAS220 Mathematical Methods	3	BUS368 Cultures of Innovation	3
<b>ENG341 Water Conservation and Auditing</b>	<b>3</b>	ENG336 Finance, Ethics and Law	3	
<b>ENG570 Circular Economy and Innovation</b>	<b>3</b>	<b>ENG572 Design of Water Treatment Unit Operations</b>	<b>3</b>	
<b>ENG571 Hydrology &amp; Water Cycle Management</b>	<b>3</b>	(Engineering Elective)	3	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	
Year 4 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	<b>ENG573 Integrated Waste Management for Resource Recovery</b>	<b>3</b>	ICT515 Foundations of Data Science	3
(Engineering Elective)	3	(Engineering Elective)	3	
<b>ENG470 Engineering Thesis</b>	<b>6</b>	<b>ENG470 Engineering Thesis</b>	<b>6</b>	
ENG100 Engineering Professional Practice	0	ENG100 Engineering Professional Practice	0	
<b>Total</b>	<b>12</b>	<b>Total</b>	<b>12</b>	

**TOTAL CREDIT POINTS 96**

Semester 1 notes	Semester 2 notes
<p>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.</p> <p>2. 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>	<p>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> <p>2. The elective units could be selected from: KAC102 Wandju Boodja (Welcome to Country); PEN152 Principles of Physics; ICT158 Introduction to Information Systems; MAS183 Statistical Data Analysis; ENV242 Atmospheric and Climate Science</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 23/11/23.