H1287 Bachelor of Engineering Honours (Environmental Engineering)

Academic Chair: M.Anda@murdoch.edu.au **Start Date:** Semester 2 2023

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 – 2023			MAS164 Fundamentals of Mathematics[1]	3
			ENG102 Engineering Design for Sustainability	3
			PEN120 General Physics[2]	3
			ENG101 Engineering Fundamentals	3
			Total	12
Year 2 - 2024	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	MAS182 Applied Mathematics	3	MAS161 Calculus and Matrix Algebra	3
	ENG103 Principles of Engineering	3	CHE140 Fundamentals of Chemistry	3
	ENG109 Engineering Computing Systems	3	ENV102 Foundations of the Environment	3
	Engineering Elective	3	Engineering Elective	3
	Total	12	**Total**	12
Year 3 – 2025	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	MAS220 Mathematical Methods	3	ENG221 Pollution and Its Control	3
	ENG215 Systems Engineering	3	ENG300 Environmental Technology for Sustainability	3
	ENG216 Dynamic Systems and Control	3	BUS368 Cultures of Innovation	3
	ENV243 Water and Earth Science	3	ENG336 Finance, Ethics and Law	3
	Total	12	**Total**	12
Year 4 - 2026	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	ENG341 Water Conservation and Auditing	3	ENG360 - Engineering Design Project	6
	ENG570 Circular Economy and Innovation	3	ENG470 Engineering Thesis	6
	ENG571 Hydrology & Water Cycle Management	3		
	Engineering Elective	3		
	Total	12	**Total**	12
Year 4 - 2027	**Semester 1 Units**	**CP**	**Semester 2 Units**	**CP**
	ENG572 Design Water Treatment Unit Operations	3		
	ENG573 - Integrated Waste Management for Resource Recovery	3		
	ENG470 Engineering Thesis	6		
	ENG100 Engineering Professional Practice	0		
	Total	12	**Total**	

TOTAL CREDIT POINTS 96

[1] 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.

[2] 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.

Elective Units
KAC102 - Wandju Boodja (Welcome to Country) CHE144 - Foundations of Chemistry PEN152 - Principles of Physics ICT158 - Introduction to Information Systems MAS183 - Statistical Data Analysis ENV242 - Atmospheric and Climate Science ENV303 - GIS for Environmental Management and Planning BRD306 – Transitions to Post Carbon Society ENG340 - Environmental Water Chemistry, ENV331 - Environmental Management GRD503 – Design Thinking Tools, PEN504 - Greenhouse Gas Reporting and Life Cycle Assessment
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 28/05/23.