

# H1264 Environmental Engineering (BE(Hons))

## Sample Course plan 2019, Semester 1 entry

### Major Prerequisites

#### Mathematics Background

Students may need to complete one prerequisite unit depending on their background in mathematics with either a C grade in Mathematics Specialist ATAR (or Mathematics: Specialist 3C/3D) or a final scaled score of 60 percent or more in Mathematics Methods ATAR (or Mathematics 3C/3D). Students without this background will need to complete,

**MAS164** Fundamentals of Mathematics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Physics Background

Students may need to complete one prerequisite unit depending on their background in physics OR a final scaled score in Physics 3A/3B (or equivalent) of 60 percent or more within the past three years. Students without this background will need to complete,

**PEN120** General Physics - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

#### Chemistry Background

Students may need to complete one prerequisite unit depending on their background in chemistry OR a final scaled score in Chemistry 3A/3B or Chemistry ATAR of 50 percent or more within the past three years. Students without this background will need to complete,

**CHE140** Fundamentals of Chemistry - 3 points  
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

If you need MAS164, CHE140 and/or PEN120, please contact your Academic Chair or Student Advisor to discuss your options, <http://our.murdoch.edu.au/Student-life/My-First-Year/Student-Life/Student-Advisors/#engineering>

	Semester 1	Semester 2
Year 1	<b>BEN100</b> Transitioning into Engineering 3pts	CHE144 Foundations of Chemistry 3pts
	PEN152 Principles of Physics 3pts	ENV102 Foundations of the Environment 3pts
	<b>BEN150</b> Design Concepts in Engineering 3pts	ENG109 Engineering Computing Systems 3pts
	MAS182 Applied Mathematics 3pts	MAS161 Calculus and Matrix Algebra 3pts
	<u>12pts</u>	<u>12pts</u>
Year 2	<b>BEN200</b> Scientific Method in Engineering 3pts	ENG201 Fluid Mechanics 3pts
	ENG298 Principles of Process Engineering 3pts	MAS221 Mathematical Modelling 3pts
	ENV243 Water and Earth Science 3pts	ENG203 Heat and Mass Transfer 3pts
	ENG202 Engineering Thermodynamics 3pts	ENG221 Pollution and its Control 3pts
	<u>12pts</u>	<u>12pts</u>

**Students should note that if unit prerequisites are required, this may extend the duration of your course.**

Disclaimer: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online [Handbook](#) .

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Year 3	BEN300 Innovation and Ethics in Engineering	3pts	ENG342 BioEnergy and Resource Recovery	3pts
	ENG340 Environmental Water Chemistry	3pts	ENG336 Engineering, Finance, Management and Law	3pts
	ENG341 Water Conservation and Auditing	3pts	ENG300 Environmental Technology for Sustainability	3pts
	ENG338 Energy Supply and Management	3pts	ENG343 Water Treatment Operations	3pts
		<u>12pts</u>		<u>12pts</u>
Year 4	ENG452 Environmental Engineering Design	3pts	ENG470 Engineering Honours Thesis	12pts
	ENG459 Sustainable Urban Water Systems	3pts		
	ENG441 Solar Thermal and Biomass Engineering	3pts		
	University-wide breadth unit	3pts		
		<u>12pts</u>	<u>12pts</u>	

All Engineering students must undertake at least 450 hours of approved work experience, and complete a report outlining the experience gained, in order to complete the requirements of the degree.

### **Important points to note in the Environmental Engineering degree:**

- Not all units are available in both semesters
- There are no elective spaces for free choice of units.

Every semester, if you change anything in your course, or you fail units, please make an appointment with your Academic Chair to discuss.

[http://www.murdoch.edu.au/contacts/academic/division/school/School\\_of\\_Engineering\\_and\\_Information\\_Technology/](http://www.murdoch.edu.au/contacts/academic/division/school/School_of_Engineering_and_Information_Technology/)

**Students should note that if unit prerequisites are required, this may extend the duration of your course.**

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