

H1264 Chemical and Metallurgical 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	BEN100 Transitioning into Engineering 3pts	CHE144 Foundations of Chemistry 3pts
	ENG193 Introduction to the Minerals Industry 3pts	MAS161 Calculus and Matrix Algebra 3pts
	BEN150 Design Concepts in Engineering 3pts	PEN152 Principles of Physics 3pts
	MAS182 Applied Mathematics 3pts	ENG109 Engineering Computing Systems 3pts
	<u>12pts</u>	<u>12pts</u>
Year 2	ENG298 Principles of Process Engineering 3pts	ENG201 Fluid Mechanics 3pts
	ENG205 Process Mineralogy 3pts	MAS221 Mathematical Modelling 3pts
	ENG202 Engineering Thermodynamics 3pts	ENG203 Heat and Mass Transfer 3pts
	ENG255 Chemical Process Kinetics 3pts	University-wide breadth unit 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	BEN200 Scientific Method in Engineering	3pts	ENG299 Control Systems and Process Dynamics	3pts
		3pts		
	ENG328 Mineral Processing 1	3pts	ENG336 Engineering, Finance, Management and Law	3pts
	ENG335 Reactor Engineering	3pts	ENG329 Mineral Processing 11	3pts
	ENG325 Pyrometallurgy	<u>12pts</u>	ENG326 Hydrometallurgy	3pts
			<u>12pts</u>	
Year 4	BEN300 Innovation and Ethics in Engineering	3pts		
		3pts	ENG470 Engineering Honours Thesis	12pts
	ENG456 Hazard, Safety and Environmental Management	6pts		
	ENG457 Engineering Design Project	<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 Chemical and Metallurgical 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 your progress.

http://www.murdoch.edu.au/contacts/academic/division/school/School_of_Engineering_and_Information_Technology/

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