

B1317 Bachelor of Science, Mineral Science – 72cps

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, your course may take longer. 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	BSC100 Building Blocks for Science	3pts	BSC150 What is Science?	3pts
	MAS182 Applied Mathematics	3pts	CHE144 Foundations of Chemistry	3pts
	PEN152 Principles of Physics	3pts	MAS161 Calculus and Matrix Algebra	3pts
	ENG193 Introduction to the Minerals Industry	3pts	Option	3pts
		<u>12pts</u>		<u>12pts</u>
Year 2	Research Skills Unit (Choose from list below*)	3pts	Option	3pts
	ENG202 Engineering Thermodynamics	3pts	Option	3pts
	ENG205 Process Mineralogy	3pts	Option	3pts
	ENG224 Principles of Unit Operations	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	Research Skills Unit (Choose from list below*)	3pts	ENG326 Hydrometallurgy	3pts
	Option	3pts	Option	3pts
	ENG324 Principles of Mineral Processing	3pts	Option	3pts
	ENG325 Pyrometallurgy	3pts	University-wide breadth unit	3pts
		<u>12pts</u>		<u>12pts</u>

*Research Skills Units. Select from the following:

ENG255 Chemical Process Kinetics	MAS221 Mathematical Modelling
BEN200 Scientific Method in Engineering	ENG299 Control Systems and Process Dynamics
BEN300 Innovation and Ethics in Engineering	MAS354 Modelling and Simulation
MAS351 Environmental and Biological Modelling	ENG336 Engineering Finance, Management and Law

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

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

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