B1317 Bachelor of Science, Mathematics and Statistics – 72cps
Sample Course plan 2019, Semester 1 entry

Major Prerequisites

Mathematics Background

Students who have not achieved a final grade of Satisfactory in Mathematics Specialist ATAR (or Mathematics Specialist 3C/3D) may need to complete up to two prerequisite units depending on their mathematics background.

Mathematics Methods ATAR or Mathematics 3C/3D and
Mathematics Specialist ATAR or Mathematics Specialist 3C/3D

OR

Mathematics Methods ATAR or Mathematics 3C/3D and
MAS182 Applied Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR

Mathematics Applications ATAR or Mathematics 2C/2D and
MAS164 Fundamentals of Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

and
MAS182 Applied Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

Students who have completed previous mathematics not stated above should consult the Academic Chair for clarification of their enrolment requirements.

If you need any of the above prerequisites, 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
	MAS162 Foundations of Discrete Mathematics	3pts	MAS183 Statistical Data Analysis	3pts
	Option	3pts	MAS161 Calculus and Matric Algebra	3pts
	Option	3pts	Option	3pts
		12pts		12pts
Year 2	Research Skills Unit (Choose from list below*)	3pts	Option	3pts
	Select 3cps from Group 1A (below)	3pts	Option	3pts
	MAS220 Mathematical Methods	3pts	Option	3pts
	Select 3cps from Group 1B (below)	3pts	University-wide breadth unit	3pts
		12pts		12pts

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	Option	3pts
	Select 9cps from Group 2 (below)	9pts	Option	3pts
		12pts	Option	3pts
			University-wide breadth unit	3pts
				12pts

Select one unit from the following Group 1A:

MAS222 Probability and Statistical Inference

MAS223 Applied Statistics

MAS224 Biostatistical Methods

Select one unit from the following Group 1B:

MAS221 Mathematical Modelling

MAS222 Probability and Statistical Inference

MAS223 Applied Statistics

MAS224 Biostatistical Methods

MAS225 Discrete Mathematics and Management Science

Select three units from the following Group 2:

MAS351 Environmental and Biological Modelling

MAS352 Time Series Analysis

MAS353 Statistical Design and Data Analysis

MAS354 Modelling and Simulation

***Research Skills Units. Select from the following:**

MAS220 Mathematical Methods

MAS222 Probability and Statistical Inference

ICT283 Data Structures and Abstractions

ICT373 Software Architectures

MAS351 Environmental and Biological Modelling

MAS352 Time Series Analysis

ICT374 Operating Systems and Systems Programming

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/

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