Sample Course Plan - Semester 1, 2023 entry B1380 Bachelor of Science (MMFS) - 72 credit points

Major: Genetics and Molecular Biology

Academic Chair: Dr Ravi Tiwari | Email: R.Tiwari@murdoch.edu.au

Major Prerequisite: Chemistry Background

Students who achieved a final scaled score of 50 percent or more in Chemistry 3A/3B or Chemistry ATAR within the past three years will be granted a preclusion from CHE140 Fundamentals of Chemistry (and will take another unit in its place). Students who have completed previous chemistry not stated above should consult their Academic Chair for clarification of their chemistry

enrolment requirements.

Ci	Semester 1		Semester 2		
	BSC100 Building Blocks for Science	3pts	MSP100 Career Learning	3pts	
	CHE140 Fundamentals of Chemistry	3pts	BIO152 Cell Biology	3pts	
Vaar 1	MAS183 Statistical Data Analysis	3pts	CHE144 Foundations of Chemistry	3pts	
>	BMS101 Introduction to the Human Body	3pts	General Elective	3pts	
		12pts		12pts	
	BIO282 Molecular Biology	3pts	BIO247 Biochemistry	3pts	
C	BMS212 Medical Microbiology*	3pts	Career Learning Unit#	3pts	
Voor	General Elective	3pts	General Elective	3pts	
>	General Elective	3pts	General Elective	3pts	
		12pts		12pts	
	BIO394 Genetic Engineering	3pts	BIO390 Metabolic & Cellular Biochemistry	3pts	
	BIO356 Genetics & Evolution	3pts	BIO378 Systems Biology	3pts	
Vaar 3	General Elective	3pts	Career Learning Unit#	3pts	
>	General Elective	3pts	General Elective	3pts	
		12pts		12pts	

*Or BIO246 Microbiology

#Career Learning Unit

Choose any two from the following:

- MSP200 Building Enterprise Skills
- MSP201 Real World Learning
- MSP202 Data Analytics and Storytelling in the 21st Century
- VLS302 Professional Placement in Veterinary and Life Sciences

Note: To complete a second major within the B1380 Bachelor of Science, take the core units of that major in place of the indicated general electives.

General Electives can be an elective unit or units towards a second major/minor. Students should keep in mind the Part 1 rule where no more than ten 100 level units are allowed.

Recommended Electives:

BMS107 Foundations of Vertebrate Form and Function

CHE103 Introduction to Forensic Science

BMS206 Biomedical Physiology

BMS211 Medical Immunology and Molecular Genetics

BMS314 Pathological Basis of Disease

BMS315 Advances in Medical Science

BMS218 Haematology

BMS327 Diagnostic Genomics

BMS213 Forensic Anatomy and Anthropology

BIO367 Forensic Toxicology

BIO309 Omics Technologies & Bioinformatics

BIO311 Interactive Data Analytics and Visualisation

MAS223 Applied Statistics

MAS224 Biostatistical Methods

BIO359 Forensic DNA Analysis

BMS321 Histology

Disclaimer: This course plan is a <u>sample only</u> and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as per the online <u>Handbook</u>. This course plan will vary depending on chosen additional majors/minors.

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