

**Sample Course Plan - Semester 2, 2021 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](mailto:R.Tiwari@murdoch.edu.au)

**Major Prerequisites: 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 exempt from [CHE140](#) Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should consult their Academic Chair for clarification of their enrolment requirements.

	<b>Semester 1</b>		<b>Semester 2</b>	
<b>Year 1</b>			BIO152 Cell Biology	3pts
			CHE140 Fundamentals of Chemistry	3pts
			MAS183 Statistical Data Analysis	3pts
			BSC100 Building Blocks for Science	3pts
				<u>12pts</u>
<b>Year 2</b>	MSP100 Career Learning	3pts	BIO247 Biochemistry	3pts
	BMS101 Introduction to the Human Body	3pts	MSP200 Career Learning	<u>3pts</u>
	CHE144 Foundations of Chemistry	3pts	Part II General Elective	3pts
	Part I General Elective	3pts	Part II General Elective	3pts
		<u>12pts</u>		<u>12pts</u>
<b>Year 3</b>	BIO282 Molecular Biology	3pts	BIO390 Metabolic & Cellular Biochemistry	3pts
	Specified Elective	3pts	BIO378 Systems Biology	3pts
	Part II General Elective	3pts	MSP201 Career Learning	3pts
	Part II General Elective	3pts	Part II General Elective	3pts
		<u>12pts</u>		<u>12pts</u>
<b>Year 4</b>	BIO394 Genetic Engineering	3pts		
	BIO356 Genetics and Evolution	3pts		
	Part II General Elective	3pts		
	Part II General Elective	3pts		
		<u>12pts</u>		

**Specified Elective:** Choose one of the following two units

BMS212 Medical Microbiology

BIO246 Microbiology

**Recommended General Electives:**

BMS213 Forensic Anatomy and Anthropology

BMS218 Haematology\*

BMS321 Histology

BMS327 Diagnostic Genomics\*

BIO309 Omics Technologies & Bioinformatics

BIO311 Interactive Data Analytics & Visualisation

BIO359 Forensic DNA Analysis

MAS224 Biostatistical Methods

\*Subject to quota

**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](#). This course plan will vary depending on chosen additional majors/minors. Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the 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](#) . This course plan will vary depending on chosen additional majors/minors. Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course.

---