

# B1380 Bachelor of Science (Major: Genetics and Molecular Biology)

Academic Chair: Dr Ravi Tiwari, R.Tiwari@murdoch.edu.au Start Date: Semester 2, 2024

Year 1 – 2024	Semester 1 Units	CP	Semester 2 Units	CP
				BMS100 Transition into Biomedical Science
			CHE140 Fundamentals of Chemistry	3
			MAS183 Statistical Data Analysis	3
			Part I General Elective	3
	<b>Total</b>		<b>Total</b>	12
Year 2 - 2025	Semester 1 Units	CP	Semester 2 Units	CP
	MSP100 Career Learning	3	BIO247 Biochemistry	3
	BMS101 Introduction to the Human Body	3	Part II General Elective	3
	BIO152 Cell Biology	3	Part II General Elective	3
	CHE144 Foundations of Chemistry	3	Part II General Elective	3
	<b>Total</b>	12	<b>Total</b>	12
Year 3 - 2026	Semester 1 Units	CP	Semester 2 Units	CP
	BIO282 Molecular biology	3	BIO390 Metabolic & Cellular Biochemistry	3
	BMS212 Medical Microbiology*	3	BIO378 Systems Biology	3
	Career Learning Unit#	3	Part II General Elective	3
	Elective	3	Part II General Elective	3
	<b>Total</b>	12	<b>Total</b>	12
Year 4 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	BIO394 Genetic Engineering	3		
	BIO356 Genetics and Evolution	3		
	Career Learning Unit#	3		
	Part II General Elective	3		
	<b>Total</b>	12	<b>Total</b>	

**TOTAL CREDIT POINTS 72**

\*And/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 21<sup>st</sup> Century
- VLS302 Professional Placement in Veterinary and Life Sciences

**Note:** MSP201 is not a self-enrolled unit and requires an approved application to grant enrolment. Students are required to organise their real-world learning experience prior to application for enrolment. See more info about the unit, eligibility, and application deadlines in the Handbook: <https://v3.pebblepad.com.au/spa/#/public/89jpzrpZ9j9jctmdcxqHpjrrM>.

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.

**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 enrolment requirements.

Semester 1 notes	Semester 2 notes
<b>Recommended Electives:</b> BMS321 Histology BMS213 Forensic Anatomy and Anthropology MAS224 Biostatistical Methods BMS327 Diagnostic Genomics BIO359 Forensic DNA Analysis	<b>Recommended Electives:</b> BIO367 Forensic Toxicology BMS218 Haematology BMS316 Parasitology BRD202 Drugs in Society MAS223 Applied Statistics BMS211 Medical Immunology

**Please note:** This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). This information is correct as at 06/05/2024.