B1419 Bachelor of Biomedical Science (Major: Genetics and Biotechnology)

Academic Chair: A/Prof Ravi Tiwari (R.Tiwari@murdoch.edu.au) **Start Date:** Semester 1, 2027

	Semester 1 Units	CP	Semester 2 Units	CP
Year 1 - 2027	BMS100 Succeeding in Science	3	BIO152 Cell Biology	3
	BMS101 Introduction to the Human Body	3	CHE144 Foundations of Chemistry	3
	MAS183 Statistical Data Analysis	3	BMS103 Introduction to Medical, Molecular and Forensic Sciences	3
	CHE140 Fundamentals of Chemistry	3	BMS107 Foundations of Vertebrate Form and Function	3
	Total	12	**Total**	12
	Semester 1 Units	**CP**	**Semester 2 Units**	**CP**
Year 2 - 2028	BIO282 Molecular Biology	3	BIO247 Biochemistry	3
	Specified Elective*	3	General Elective	3
	Discovery Study	3	General Elective	3
	General Elective	3	General Elective	3
	Total	12	**Total**	12
	Semester 1 Units	**CP**	**Semester 2 Units**	**CP**
Year 3 - 2029	BIO394 Genetic Engineering	3	BIO390 Metabolic & Cellular Biochemistry	3
	BIO356 Genetics & Evolution	3	BIO378 Systems Biology	3
	General Elective	3	General Elective	3
	General Elective	3	General Elective	3
	Total	12	**Total**	12

TOTAL CREDIT POINTS 72

***Specified Elective**: BMS212 Medical Microbiology or BIO246 Principles of Microbiology

Note: To complete a second major within the B1419 Bachelor of Biomedical 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 per cent 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.

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.

Semester 1 Notes	Semester 2 Notes
Recommended Electives: BMS213 Forensic Anatomy and Anthropology BMS221 Histology and Histotechnology BMS314 Pathological Basis of Disease BMS324 Clinical Microbiology I BMS327 Diagnostic Genomics BIO359 Forensic DNA Analysis COM202 Content Creation FSN200 Principles of Nutrition MAS224 Biostatistics	**Recommended Electives:** BIO315 Bodies of Evidence BIO367 Forensic Toxicology BMS211 Medical Immunology BMS218 Haematology BMS315 Advances in Medical Science BRD202 Drugs in Society MAS223 Applied Statistics FSN202 Nutrition and Disease SIK201 Two-Way Science SIK300 Indigenous Knowledges in Health and Wellbeing

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 of 5/11/2026.