

Sample Course Plan - Semester 1 2019 entry
B1317 Bachelor of Science (Genetics and Molecular Biology) - 72 credit points

Academic Chair: Dr Ravi Tiwari, 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 should seek an exemption from their Academic Chair for [CHE140](#) Fundamentals of Chemistry. Students who have completed previous chemistry not stated above should also consult their Academic Chair for clarification of their enrolment requirements.

	Semester 1	Semester 2
Year 1	BSC100 Building Blocks for Science Students 3pts CHE140 Fundamentals of Chemistry 3pts MAS183 Statistical Data Analysis 3pts BMS101 Introduction to the Human Body 3pts <hr/> 12pts	BSC150 What is Science? 3pts BIO152 Cell Biology 3pts CHE144 Foundations of Chemistry 3pts Part I General Elective 3pts <hr/> 12pts
Year 2	Breadth unit (<i>see note below</i>) 3pts BIO282 Molecular Biology 3pts Specified Elective (<i>choose from list below</i>) 3pts Part II General Elective 3pts <hr/> 12pts	Research Skills unit (<i>see note below</i>) 3pts BIO247 Biochemistry 3pts Part II General Elective 3pts Part II General Elective 3pts <hr/> 12pts
Year 3	Breadth unit (<i>see note below</i>) 3pts BIO356 Genetics and Evolution 3pts BIO394 Genetic Engineering 3pts Part II General Elective (<i>recommended: VLS300 Projects in Veterinary and Life Sciences</i>) 3pts <hr/> 12pts	Research Skills unit (<i>see note below</i>) 3pts BIO378 Systems Biology 3pts Part II General Elective 3pts Part II General Elective 3pts <hr/> 12pts

Year 2 - Specified Elective – Choose one of the two options:

[BIO246](#) Microbiology - 3 points

MURDOCH: S1-internal

OR [BMS212](#) Medical Microbiology - 3 points

MURDOCH: S1-internal

Note: Breadth and Research Skills Unit Requirements

Students require 6pts of Breadth units and 6pts of Research Skills units for Part II of their degree.

Select from the prescribed lists of options – below.

Please note: A unit cannot be used to satisfy both the Breadth or Research Skills Unit requirements and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

Breadth Units List:

Choose from list here: <http://handbook.murdoch.edu.au/units/?year=2019&discip=University+Breadth&sort=UnitCd>

Research Skills Unit List: Genetics and Molecular

Biology

[MAS223](#) Applied Statistics - 3 points

MURDOCH: S2-internal, S2-external

[MAS224](#) Biostatistical Methods - 3 points

MURDOCH: S1-internal, S1-external

[BIO388](#) Forensic Science and Miscarriages of Justice - 3 points

MURDOCH: W-internal

[BMS211](#) Medical Immunology and Molecular Genetics - 3 points

MURDOCH: S2-internal

[BMS327](#) Diagnostic Genomics - 3 points

MURDOCH: S2-internal (quota of 25 places)

[BIO367](#) Forensic Toxicology - 3 points

MURDOCH: S2-internal

[BIO359](#) Forensic DNA Analysis - 3 points

MURDOCH: S1-internal

[BMS218](#) Haematology - 3 points

MURDOCH: S2-internal (quota of 60 places)

[BMS323](#) Clinical Biochemistry I - 3 points

MURDOCH: S2-internal (quota of 25 places)

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 and your academic progression.

Students should note that due to unit prerequisites, commencing study in semester 2 may extend the duration of the course.