

Sample Course Plan - Semester 1 2019 entry
B1337 Bachelor of Science / Laboratory Medicine ([Laboratory Medicine](#)) - 96 credit points
Second Major: Genetics and Molecular Biology

Academic Chair: Associate Professor Murray Adams | Email: M.Adams@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.

Course variation: Breadth Units

Students studying Laboratory Medicine with a second major in Genetics and Molecular Biology need to contact the Academic Chair regarding a waiver from 3cp Breadth units.

	Semester 1	Semester 2
Year 1	BSC100 Building Blocks for Science Students 3pts CHE140 Fundamentals of Chemistry 3pts BMS101 Introduction to the Human Body 3pts MAS183 Statistical Data Analysis 3pts <u>12pts</u>	BSC150 What is Science? 3pts BIO152 Cell Biology 3pts BMS107 Foundations of Vertebrate Form and Function 3pts CHE144 Foundations of Chemistry 3pts <u>12pts</u>
Year 2	Breadth Unit (<i>see note below</i>) 3pts Research Skills unit (<i>see note below</i>) 3pts BIO282 Molecular Biology 3pts BMS212 Medical Microbiology 3pts <u>12pts</u>	Research Skills unit (<i>see note below</i>) 3pts BMS218 Haematology 3pts BMS211 Medical Immunology and Molecular Genetics 3pts BIO247 Biochemistry 3pts <u>12pts</u>
Year 3	BMS321 Histology 3pts BMS314 Pathological Basis of Disease 3pts BIO356 Genetics and Evolution 3pts BIO394 Genetic Engineering 3pts <u>12pts</u>	BIO378 Systems Biology 3pts Specified Elective (<i>choose from list below</i>) 3pts Specified Elective (<i>choose from list below</i>) 3pts <i>And select <u>one</u> unit from below to be studied in Year 3 with the <u>remaining two</u> units to be studied in Year 4:</i> <ul style="list-style-type: none"> BMS322 Clinical Immunology 3pts BMS325 Histopathology 3pts BMS327 Diagnostic Genomics 3pts <u>12pts</u>
	Year 3 Specified Electives - 6 credit points Select from the following: BMS323 Clinical Biochemistry I - 3 points MURDOCH: S2-internal (quota of 25 places) BMS324 Clinical Microbiology I - 3 points MURDOCH: S2-internal (quota of 25 places) BMS326 Clinical Haematology 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.

Year 4	<p>Core Units - 18 credit points</p> <p>BMS431 Laboratory Medicine Practice I - 6 points</p> <p>BMS432 Laboratory Medicine Practice II - 6 points</p> <p><i>And select <u>one</u> unit from below to be studied in Year 3 with the <u>remaining two</u> units to be studied in Year 4:</i></p> <ul style="list-style-type: none"> • BMS322 Clinical Immunology – 3 points • BMS325 Histopathology – 3 points • BMS327 Diagnostic Genomics – 3 points <p>Year 4 Specified Electives - 6 credit points Select from the following:</p> <p>BMS423 Clinical Biochemistry II - 3 points</p> <p>BMS424 Clinical Microbiology II - 3 points</p> <p>BMS426 Clinical Haematology II - 3 points</p> <p>Additional Academic Progress Requirements</p> <p>In order to commence the fourth year of the Bachelor of Science/Bachelor of Laboratory Medicine students must have achieved a minimum GPA of 2.0 (out of 4.0) over their second and third year units.</p>
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<p>Note: Breadth and Research Skills Unit Requirements</p> <p><i>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.</i></p> <p><i>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.</i></p> <p>Research Skills Unit List: Laboratory Medicine</p> <p>MAS223 Applied Statistics - 3 points MURDOCH: S2-internal, S2-external</p> <p>MAS224 Biostatistical Methods - 3 points MURDOCH: S1-internal, S1-external</p> <p>BIO388 Forensic Science and Miscarriages of Justice - 3 points MURDOCH: W-internal</p> <p>BIO394 Genetic Engineering - 3 points MURDOCH: S1-internal</p> <p>BIO367 Forensic Toxicology - 3 points MURDOCH: S2-internal</p> <p>BIO246 Microbiology - 3 points MURDOCH: S1-internal</p> <p>BMS316 Parasitology: People, Pets and Wildlife - 3 points MURDOCH: S2-internal</p>
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