

Sample Course Plan - Semester 1 2018 entry
B1337 Bachelor of Science / Laboratory Medicine ([Laboratory Medicine](#)) - 96 credit points
Second Major: Forensic Biology and Toxicology

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 Forensic Biology and Toxicology need to contact the Academic Chair regarding a waiver from 6cp Breadth units.

| | Semester 1 | Semester 2 |
|--|---|--|
| Year 1 | BSC100 Building Blocks for Science Students 3pts BMS101 Introduction to the Human Body 3pts CHE103 Introduction to Forensic Science 3pts MAS183 Statistical Data Analysis 3pts 12pts | BSC150 What is Science? 3pts BIO152 Cell Biology 3pts BMS107 Foundations of Vertebrate Form and Function 3pts CHE144 Foundations of Chemistry 3pts 12pts |
| Year 2 | Research Skills unit (<i>see note below</i>) 3pts BIO282 Molecular Biology 3pts BMS212 Medical Microbiology 3pts BMS213 Forensic Anatomy and Anthropology 3pts 12pts | BMS218 Haematology 3pts BMS211 Medical Immunology and Molecular Genetics 3pts BIO247 Biochemistry 3pts BIO315 Bodies of Evidence 3pts 12pts |
| Year 3 | Research Skills unit (<i>see note below</i>) 3pts BMS321 Histology 3pts BMS314 Pathological Basis of Disease 3pts BIO359 Forensic DNA Analysis 3pts 12pts | BIO367 Forensic Toxicology 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> 3pts <ul style="list-style-type: none"> BMS322 Clinical Immunology 3pts BMS325 Histopathology 3pts BMS327 Diagnostic Genomics 3pts 12pts |
| 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.

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| 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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Note: Part II 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.

Research Skills Unit List: Laboratory Medicine

[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

[BIO394 Genetic Engineering](#) - 3 points

MURDOCH: S1-internal

[BIO367 Forensic Toxicology](#) - 3 points

MURDOCH: S2-internal

[BIO246 Microbiology](#) - 3 points

MURDOCH: S1-internal

[BMS316 Parasitology: People, Pets and Wildlife](#) - 3 points

MURDOCH: S2-internal

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