

Bachelor of Medical Science

This **suggested** study plan must be read in conjunction with the course rule at:

www.flinders.edu.au/courses/rules/undergrad/bms

To qualify for the Bachelor Medical Science, a student must complete 108 units with a grade of P or NGP or better in each topic, according to the following program of study.

Not all topics are necessarily available in a given year.

Year 1 topics

<p>Semester 1:</p> <p>BIOL1102 Molecular Basis of Life MDSC1102 Skills for Medical Scientists 1 MMED1005 How Your Body Works: Human Physiology and Structure</p> <p>Plus one of:</p> <p>CHEM1101 Chemical Structure and Bonding OR CHEM1201 General Chemistry</p>	<p>Semester 2:</p> <p>BIOL1101 Evolution of Biological Diversity CHEM1202 Chemistry for the Life Sciences</p> <p>Option topic (one x 4.5 unit topic selected from the list below)</p> <p>Elective topic (one x first year 4.5 unit topic from within the University)</p>
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Year 2 topics

<p>Semester 1:</p> <p>BIOL2771 Biochemistry MMED2931 Human Physiology</p> <p>Elective topics (two x 4.5 unit topics selected from the list below)</p>	<p>Semester 2:</p> <p>BIOL2772 Molecular Biology MDSC2000 Skills for Medical Scientists 2</p> <p>Elective topics (two x 4.5 unit topics selected from the list below)</p>
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Year 3 topics

<p>Semester 1:</p> <p>MDSC3000 Skills for Medical Scientists 3</p> <p>Elective topics (three x 4.5 unit topics selected from the specialisation lists below)</p>	<p>Semester 2:</p> <p>Elective topics (four x 4.5 unit topics selected from the specialisation lists below)</p>
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Year 1 - Listed options*:

[BIOL1112](#) Biology and Society
[BTEC1001](#) Introduction to Biotechnology
[CHEM1102](#) Modern Chemistry*
[COMS1001](#) Academic and Professional Communication
[HLTH1003](#) Legal and Ethical Aspects of Health Care
[MMED1007](#) Histology: the Building Blocks of the Human Body
[NUTD1105](#) Food Systems
[NUTD1106](#) Nutrition, Physical Activity and Health
[PHYS1701](#) Physics for the Modern World
[PHYS1702](#) Physics for Health Sciences
[STAT1122](#) Biostatistics

*[CHEM1102](#) is only available to students who have completed [CHEM1101](#) or are enrolled in [CHEM1101](#).

Year 2 - Listed options^:

[BIOL2702](#) Genetics, Evolution and Biodiversity
[BIOL2722](#) Disease and Immunology
[BIOL2761](#) Virology
[BIOL3761](#) Foundations in Microbiology
[BTEC2001](#) Bioscience: from the Bench to the Community
[BTEC2002](#) Legal, Ethical and Social Aspects of Bioscience
[MMED2932](#) Integrative Human Physiology
[MMED2933](#) Fundamental Neuroscience
[MMED2934](#) Introduction to Human Molecular Genetics
[MMED2935](#) Human Immunology and Infectious Diseases
[NUTD2101](#) Nutrition Across the Lifecycle
[NUTD2102](#) Food Products and Preparation
[NUTD2105](#) Social & Ecological Perspectives on Food Choice

^Students should select topics so as to meet any prerequisite requirements for the third year specialisation they intend to pursue.

Year 3 topic Specialisations:

Specialisation - Year 3 - Biochemistry & Molecular Biology

[BIOL3762](#) Protein to Proteome
[BIOL3771](#) DNA to Genome
[BTEC3002](#) Medical Biotechnology
[MDSC3100](#) Point-of-Care Testing: Application, Management and Effectiveness
[MMED3933](#) Biochemistry of Human Disease
[MMED3935](#) Human Molecular Genetics
[MMED3938](#) Advanced Human Molecular Genetics

Specialisation - Year 3 - Biomedical Technology

[ENGR2732](#) Biomechanics
[ENGR2742](#) Biomedical Instrumentation
[ENGR3741](#) Physiological Measurement
[ENGR7701](#) Advanced Biomechanics
[ENGR7702](#) Biomaterials
[ENGR7771](#) Rehabilitation and Assistive Technology

Specialisation - Year 3 - Medical Biotechnology

- [BIOL3762](#) Protein to Proteome
- [BIOL3771](#) DNA to Genome
- [BTEC3002](#) Medical Biotechnology
- [BTEC3003](#) Industrial and Pharmaceutical Biotechnology
- [BTEC3005](#) Integrating Biotechnology

Specialisation - Year 3 - Microbiology

- [BIOL2761](#) Virology
- [BIOL3761](#) Foundations in Microbiology
- [BIOL3782](#) Advanced Microbiology: Microbial Ecology and Infectious Disease
- [BTEC3003](#) Industrial and Pharmaceutical Biotechnology
- [MMED3939](#) Medical Virology, Immunology and Immunopathogenesis

Specialisation - Year 3 - Nutrition

- [HLTH2102](#) Indigenous Health for Health Professionals
- [MMED3933](#) Biochemistry of Human Disease
- [NUTD3101](#) Fundamentals of Nutritional Epidemiology
- [NUTD3102](#) Nutrients Role and Function
- [NUTD3107](#) Public Health and Community Nutrition
- [NUTD3203](#) Nutrition for Sports Performance

Specialisation - Year 3 - Pharmacology & Toxicology

- [BTEC3002](#) Medical Biotechnology
- [MDSC3100](#) Point-of-Care Testing: Application, Management and Effectiveness
- [MMED3933](#) Biochemistry of Human Disease
- [MMED3934](#) Principles of Pharmacology and Toxicology
- [MMED3936](#) Human Pharmacology and Therapeutics

Specialisation - Year 3 - Physiology & Neuroscience

- [MDSC3100](#) Point-of-Care Testing: Application, Management and Effectiveness
- [MMED3930](#) Sensory Motor Systems
- [MMED3931](#) Advanced Neuroscience
- [MMED3932](#) Body Systems
- [MMED3937](#) Pathophysiology for Medical Science
- [MMED3941](#) Human Musculoskeletal Anatomy

Option - Year 3 - Professional placement

- [MDSC3102](#) Professional Placement Medical Science

This document is accurate as of November 2018.