

Bachelor of Science (Biotechnology)

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

www.flinders.edu.au/courses/rules/undergrad/bscs/bscs-btec

To be read in conjunction with the program of study requirements for the [Bachelor of Science \(Specialisations\)](#).

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

Students choose from one of two streams in the Biotechnology Specialisation:

[Molecular Biotechnology](#)

[Medical Biotechnology](#)

Not all topics are necessarily available in a given year.

Year 1 topics – Molecular Biotechnology

<p>Semester 1:</p> <p>BIOL1102 Molecular Basis of Life SPOC1701 The Nature of Science I</p> <p>Plus one of:</p> <p>CHEM1101 Chemical Structure and Bonding OR CHEM1201 General Chemistry</p> <p>Elective topic (one x 4.5 unit topic from across the University where entry requirements are met)</p>	<p>Semester 2:</p> <p>BIOL1101 Evolution of Biological Diversity BTEC1001 Introduction to Biotechnology STAT1122 Biostatistics CHEM1202 Chemistry for the Life Sciences</p>
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Year 2 topics – Molecular Biotechnology

<p>Semester 1:</p> <p>BIOL2701 Experimental Design and Statistics for Biology BIOL2771 Biochemistry BIOL3761 Foundations in Microbiology BTEC2001 Bioscience: from the Bench to the Community</p>	<p>Semester 2:</p> <p>BIOL2702 Genetics, Evolution and Biodiversity BIOL2772 Molecular Biology BTEC2002 Legal, Ethical and Social Aspects of Bioscience</p> <p>Elective topic (one x 4.5 unit topic from across the University where entry requirements are met)</p>
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Year 3 topics – Molecular Biotechnology

<p>Semester 1:</p> <p>BIOL3771 DNA to Genome</p> <p>Plus three of:</p> <p>BTEC3001 Plant Science to Food Biotechnology BTEC3002 Medical Biotechnology BTEC3003 Industrial and Pharmaceutical Biotechnology BTEC3004 Environmental Biotechnology</p>	<p>Semester 2:</p> <p>BIOL3762 Protein to Proteome BIOL3772 Integrating Molecular Biosciences BTEC3005 Integrating Biotechnology</p> <p>Elective topic (one x 4.5 unit topic from across the University where entry requirements are met#)</p>
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#Students are encouraged to enrol in [STEM3001](#) Science Connect as a third-year elective.

Year 1 topics – Medical Biotechnology

<p>Semester 1:</p> <p>BIOL1102 Molecular Basis of Life MMED1005 How Your Body Works: Human Physiology and Structure SPOC1701 The Nature of Science I</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 BTEC1001 Introduction to Biotechnology STAT1122 Biostatistics CHEM1202 Chemistry for the Life Sciences</p>
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Year 2 topics – Medical Biotechnology

<p>Semester 1:</p> <p>BIOL2771 Biochemistry MMED2931 Human Physiology</p> <p>Elective topics (9 units of elective topics^ where entry requirements have been met)</p>	<p>Semester 2:</p> <p>BIOL2702 Genetics, Evolution and Biodiversity BIOL2772 Molecular Biology BTEC2002 Legal, Ethical and Social Aspects of Bioscience MMED2935 Human Immunology and Infectious Diseases</p>
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Year 3 topics – Medical Biotechnology

<p>Semester 1:</p> <p>BIOL3771 DNA to Genome BTEC3002 Medical Biotechnology</p> <p>Plus two of:</p> <p>BTEC3001 Plant Science to Food Biotechnology BTEC3003 Industrial and Pharmaceutical Biotechnology BTEC3004 Environmental Biotechnology MMED2934 Introduction to Human Molecular Genetics MMED3934 Principles of Pharmacology and Toxicology</p>	<p>Semester 2:</p> <p>BIOL3762 Protein to Proteome BIOL3772 Integrating Molecular Biosciences BTEC3005 Integrating Biotechnology</p> <p>Elective topic (one x 4.5 unit topic from across the University where entry requirements are met#^)</p>
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Medical Biotechnology - Recommended Electives

#Students are encouraged to enrol in [STEM3001](#) Science Connect as a third-year elective.

^While students are able to select elective units from anywhere across the University, these are recommended electives:

[BIOL3761](#) Foundations in Microbiology

[BTEC2001](#) Bioscience: from the Bench to the Community

This document is accurate as of November 2018.