

# Bachelor of Science (Biomedical Science) (BSc(BiomedSc))

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## Program Code

BSC

## Program Minimum Units

72

## Standard Duration

3 Years

## Program Faculty

Faculty of Sciences

## AQF Level

07

## Academic Year

2022

These Program Rules should be read in conjunction with the University's policies (<http://www.adelaide.edu.au/policies>).

## Overview

This program focuses on the biomedical aspects of biology, including the normal and abnormal function of the human body. The emphasis is on modern biomedical knowledge and the research approaches used to gain that knowledge. Students will start from a broad base in their first year that includes biology and chemistry and will begin to specialise in their second year with a focus on biochemistry, genetics and microbiology and immunology. In their third year, students will choose a major in one of biochemistry, genetics or microbiology and immunology. The third year has a substantial research focus.

The Bachelor of Science (Biomedical Science) is an AQF Level 7 program with a standard full-time duration of 3 years.

## Conditions

*Interruption of program:* Students must apply for permission from the Executive Dean or delegate before taking a Leave of Absence. Any extension of the leave without approval will result in the loss of place in the program but an application may be made to be re-admitted to the program subject to the admission procedures in place at the time.

## Academic Program Rules for Bachelor of Science (Biomedical Science) (BSc(BiomedSc))

There shall be a Bachelor of Science (Biomedical Science) (BSc(BiomedSc)).

## Qualification Requirements Academic Program

To qualify for the degree of Bachelor of Science (Biomedical Science), the student must complete satisfactorily a program of study consisting of the following requirements with a combined total of not less than 72 units:

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1. Core courses to the value of 18 units
2. Elective courses to the value of 54 units, which may include other undergraduate courses offered by the University that are available to the student up to the value of 9 units in total at levels I and/or II with no more than 6 units at level I.
3. Level I courses not exceeding 30 units
4. Level III Science courses to the value of at least 24 units
5. A major chosen from the following:
  - Biochemistry
  - Genetics
  - Microbiology & Immunology
6. Broadening experience

### Core Courses

#### Level I

All of the following courses must be completed:

BIOLOGY 1101 [Biology I: Molecules, Genes and Cells](#) (3 units)

BIOLOGY 1201 [Biology I: Human Perspectives](#) (3 units)

**and**

Courses to the value of 6 units from the following:

CHEM 1100 [Chemistry IA](#) (3 units)

CHEM 1200 [Chemistry IB](#) (3 units)

**or**

CHEM 1101 [Foundations of Chemistry IA](#) (3 units)

CHEM 1201 [Foundations of Chemistry IB](#) (3 units)

#### Level II

All of the following courses must be completed:

BIOMED 2510 [Biomedical Science IIA](#) (3 units)

BIOMED 2520 [Biomedical Science IIB](#) (3 units)

### Biochemistry major

#### Level III

All of the following courses must be completed:

BIOCHEM 3230 [Molecular & Structural Biology III \(Biomed Sci\)](#) (6 units)

BIOCHEM 3235 [Cancer, Stem Cells & Development III \(Biomed Sc\)](#) (6 units)

### Genetics major

#### Level III

All of the following courses must be completed:

GENETICS 3111 [Genes, Genomes and Molecular Evolution III](#) (6 units)

GENETICS 3212 [Gene Expression & Human & Developmental Genetics \(Biomed\) III](#) (6 units)

### Microbiology & Immunology major

#### Level III

All of the following courses must be completed:

MICRO 3102 [Infection & Immunity IIIA \(Biomedical Science\)](#) (6 units)

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MICRO 3202 [Infection and Immunity IIIB \(Biomedical Science\)](#) (6 units)

### Elective Courses

#### Level I

Elective courses from the Bachelor of Science or other undergraduate courses offered by the University that are available to the student.

#### Level II

Courses to the value of at least 12 units from the following:

BIOCHEM 2500 [Biochemistry II: Molecular and Cell Biology](#) (3 units)

BIOCHEM 2501 [Biochemistry II: Metabolism](#) (3 units)

GENETICS 2510 [Genetics IIA: Foundation of Genetics](#) (3 units)

GENETICS 2520 [Genetics IIB: Function and Diversity of Genomes](#) (3 units)

MICRO 2500 [Microbiology II](#) (3 units)

MICRO 2501 [Immunology & Virology II](#) (3 units)

**and**

Additional level II courses from the Bachelor of Science or other undergraduate courses offered by the University that are available to the student.

#### Level III

Courses to the value of 12 units from the following:

BIOCHEM 3000 [Molecular and Structural Biology III](#) (6 units)

BIOCHEM 3001 [Cancer, Stem Cells & Development III](#) (6 units)

BIOINF 3000 [Bioinformatics III](#) (3 units)

BIOINF 3005 [Transcriptomics Applications III](#) (3 units)

BIOINF 3010 [Genomics Applications III](#) (3 units)

CHEM 3211 [Synthesis of Materials III](#) (3 units)

CHEM 3212 [Fundamentals of Materials III](#) (3 units)

CHEM 3213 [Advanced Synthetic Methods III](#) (3 units)

CHEM 3214 [Medicinal and Biological Chemistry III](#) (3 units)

CHEM 3600 [Environmental and Analytical Chemistry III](#) (3 units)

CHEM 3610 [Inorganic Chemistry III](#) (3 units)

CHEM 3620 [Organic Chemistry III](#) (3 units)

CHEM 3630 [Physical Chemistry III](#) (3 units)

GENETICS 3111 [Genes, Genomes and Molecular Evolution III](#) (6 units)

GENETICS 3211 [Gene Expression & Human & Developmental Genetics III](#) (6 units)

MICRO 3000 [Infection and Immunity IIIA](#) (6 units)

MICRO 3001 [Infection and Immunity IIIB](#) (6 units)

### Broadening Experience

The broadening experience requirement can be met by any of the following:

Study abroad or exchange

**or**

Courses to the value of at least 3 units from the following:

- SCIENCE 2550 [International Experience II](#) (3 units)
- SCIENCE 2700 [Science Internship II](#) (3 units)
- SCIENCE 3200 [Communicating Science III](#) (3 units)
- SCIENCE 3500 [Science International Study Tour](#) (3 units)
- SCIENCE 3510 [Science International Study Tour B](#) (3 units)
- SCIENCE 3520 [Science Experience III](#) (3 units)
- SCIENCE 3550 [International Experience III](#) (3 units)
- SCIENCE 3700 [Science Internship III](#) (3 units)

**or**

courses outside the major area of study

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