

# Bachelor of Science (Biotechnology)

*These rules should be read in conjunction with Academic Program Rules parts 1, 2, and 3 of the Bachelor of Science.*

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

## 1 Qualification requirements

1.1 To qualify for the degree a candidate shall pass courses, listed in 1.2 below, to the value of 72 units, which satisfy the following requirements:

- a a candidate shall present passes in courses to the value of 24 units at each of Level I, II and III
- b a candidate may substitute an appropriate course chosen from Level II to fulfil the requirements of Level I, or from Level III to fulfil the requirements of Level I or II
- c a candidate shall complete a major in a discipline as set out in 1.2 below
- d a candidate may also complete a major in a discipline as set out in Academic Program Rule 4.4 of the degree of Bachelor of Science.

## 1.2 Academic program

### 1.2.1 Level I

Level I courses, which shall include:

i passes in core courses

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells..... 3

BIOTECH 1000 Introduction to Biotechnology I..... 3

CHEM 1100 Chemistry IA..... 3

*or*

CHEM 1101 Foundations of Chemistry IA..... 3

Semester 2

BIOLOGY 1201 Biology I: Human Perspectives ..... 3

*and/or*

BIOLOGY 1202 Biology I: Organisms ..... 3

CHEM 1200 Chemistry IB..... 3

*or*

CHEM 1201 Foundations of Chemistry IB ..... 3

ii passes in additional Level I courses to the value of 9 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.2, 4.5.1 and 4.5.2 for the degree of Bachelor of Science.

### 1.2.2 Level II

Level II courses, which shall include:

i passes in core courses

Semester 1

BIOCHEM 2502 Biochemistry II: Molecular & Cell Biology (Biotechnology) ..... 3

MICRO 2504 Microbiology II (Biotechnology)..... 3

Semester 2

CHEM ENG 2015 Principles of Biotechnology II..... 3

ii passes in additional courses to the value of 15 units selected from:

Semester 1

CHEM 2510 Chemistry IIA..... 3

CHEM 2530 Environmental & Analytical Chemistry II ..... 3

ENV BIOL 2503 Zoology II ..... 3

GENETICS 2510 Genetics IIA Foundation of Genetics ..... 3

PHYSIOL 2510 Human Physiology IIA..... 3

Semester 2

BIOCHEM 2503 Biochemistry II: Metabolism (Biotechnology) .....	3
CHEM 2520 Chemistry IIB .....	3
CHEM 2540 Medicinal & Biological Chemistry II .....	3
ENV BIOL 2501 Evolutionary Biology II .....	3
GENETICS 2520 Genetics IIB Function & Diversity of Genomes .....	3
MICRO 2505 Immunology & Virology II (Biotechnology) .....	3
PHYSIOL 2520 Human Physiology IIB .....	3

*or*

passes in additional Level II course selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.2, 4.5.3 and 4.5.4 for the degree of Bachelor of Science.

### 1.2.3 Level III

Level III courses, which shall include:

i passes in core courses:

#### **For a major in Biochemistry**

Semester 1

BIOCHEM 3000 Molecular and Structural Biology III .....	6
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Semester 2

BIOTECH 3000 Biotechnology Practice III .....	6
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ii passes in additional Level III course to the value of 12 units chosen from:

Semester 1

CHEM 3111 Chemistry III .....	6
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GENETICS 3111 Genes, Genomes and Molecular Evolution III .....	6
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MICRO 3000 Infection and Immunity IIIA .....	6
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*or*

passes in additional Level III course selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 and 4.5.6 for the degree of Bachelor of Science.

Semester 2

BIOCHEM 3001 Cancer, Stem Cells & Developmental Biology III .....	6
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CHEM 3211 Heterocyclic Chemistry & Molecular Devices III .....	3
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CHEM 3212 Materials Chemistry III .....	3
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CHEM 3213 Advanced Synthetic Methods III .....	3
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CHEM 3214 Medicinal & Biological Chemistry III .....	3
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GENETICS 3211 Gene Expression & Human & Developmental Genetics .....	6
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MICRO 3001 Infection and Immunity IIIB .....	6
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PLANT SC 3009WT Plant Molecular Biology III .....	6
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*or*

passes in additional Level III course selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 and 4.5.6 for the degree of Bachelor of Science.

### 1.3 Unacceptable combinations of courses

No candidate will be permitted to count towards an award any course, together with any other course, which, in the opinion of the Faculty, contains a substantial amount of the same material, and no course or portion of a course may be counted twice towards an award.

Note: A list of unacceptable combinations of courses is available from the Faculty of Sciences.

### 1.4 Graduation

Subject to Chapter 89 of the Statutes, candidates who have satisfied the requirements for any award of the University shall be admitted to that award.

## 2 Special circumstances

When in the opinion of the Faculty special circumstances exist, the Council, on the recommendation of the Faculty in each case, may vary any of the provisions of the Academic Program Rules for any particular award.

