



2012 Undergraduate & Postgraduate Program Rules

Faculty of Sciences

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Notes on Delegated Authority

1. Council has delegated the power to approve minor changes to the Academic Program Rules to the Executive Deans of Faculties.
2. Council has delegated the power to specify syllabuses to the Head of each department or centre concerned, such syllabuses to be subject to approval by the Faculty or by the Executive Dean on behalf of the Faculty.

1 Duration of program

The program for the degree shall extend over three years of full-time study or the part-time equivalent, and that for the Honours degree over one additional year of full-time study or, in exceptional circumstances, over two years of part-time study.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- a Normally status will only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- b The candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules.
- c A candidate shall complete a minimum of 24 units towards the award, as defined in 4.3 below, that have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

- 3.3 a A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- b A candidate who fails to obtain a Pass or higher grade in a course or and who desires to take the course again shall, unless exempted wholly or partially there from by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- c A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 4.3 below, to the value of 72 units.

4.2 Professional Internship

For the Bachelor of Agricultural Sciences program, a total of twelve weeks (approximately 450 hours) professional work experience is required and this should be undertaken during the University vacations by the start of Semester 2 of the third year. The internship is assessed as part of AGRIC 3500WT Professional Skills in Agricultural Science III.

The Faculty may grant either partial or total exemption from these requirements to a candidate who produces satisfactory evidence of professional experience obtained before their first enrolment in the Faculty; and in special cases, the Faculty may grant dispensation from the requirements.

Credit will not normally be given for periods of less than two consecutive weeks.

A candidate should seek a variety of professional work experience appropriate to the candidate's academic level. Work in the candidate's family business or farm will not normally contribute to the professional experience except with the approval of the Program coordinator. This approval must be obtained prior to undertaking the period of professional work experience.

Before beginning a period of professional work experience, a candidate may ensure that it will be satisfactory to the Faculty by consulting the Program Coordinator.

Upon completion of each period of professional work experience, a candidate is required to submit to the Program Coordinator a report on the work completed using the prescribed report format, certified by the employer for approval by the Program Coordinator.

4.3 Academic program

4.3.1 Level I

Passes in Level I courses, which shall include:

Semester 1

BIOLOGY 1101 Biology I: Molecules, Genes and Cells3

CHEM 1100 Chemistry IA.....3

or

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

AGRIC 1510WT Agricultural Systems IA.....3

STATS 1000 Statistical Practice I3

Semester 2

BIOLOGY 1202 Biology I: Organisms3

CHEM 1200 Chemistry IB3

or

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

AGRIC 1520WT Agricultural Systems IB.....3

SOIL&WAT 1000WT Soils and Landscapes I3

4.3.2 Level II

Passes in Level II courses, which shall include:

Semester 1

AGRIC 2500WT Animal and Plant Biochemistry II.....3

PLANT SC 2510WT Foundations in Plant Science II.....3

PLANT SC 2500WT Microbiology and Invertebrate Biology II.....3

SOIL&WAT 2500WT Soil and Water Resources II.....3

Semester 2

AGRIC 2505RW Crop & Pasture Production II.....3

AGRIBUS 2520WT Agribusiness II.....3

ANIML SC 2503RW Livestock Production Sciences II3

ANIML SC 2501WT Genes and Inheritance II3

4.3.3 Level III

Passes in Level III courses, which shall include:

Semester 1

AGRIC 3515WT Research Methodology in Agricultural Science III3

AGRIBUS 3500WT Agricultural Economics & Policy III.....3

Semester 2

AGRIC 3510WT Agricultural Resource Management III.....3

AGRIC 3500WT Professional Skills in Agricultural Science III3

plus

elective courses to the value of 12 units chosen from:

Livestock Science and Production

Semester 1

ANIML SC 3045RW Animal Breeding & Genetics III3

ANIML SC3046RW Animal Reproduction and Development III3

Semester 2

ANIML SC 3015RW Animal Nutrition & Metabolism III3

ANIML SC 3016RW Animal Health III3

Soil Science

Summer Semester

SOIL&WAT 3004WT Environmental Toxicology and Remediation3

Semester 1

SOIL&WAT 3017WT Soil & Water: Management and Conservation III.....3

SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III3

Winter Semester

SOIL&WAT 3020WT GIS for Agriculture & Natural Resource Management III.....3

Crop and Pasture Science

Semester 1

PLANT SC 3510WT Plant Health III 3

PLANT SC 3200WT Plant Breeding III3

Semester 2

AGRONOMY 3012RW Agronomy III.....3

PLANT SC 3515WT Plant Biotechnology III3

PLANT SC 3500WT Soil and Plant Nutrition III.....3

Students may substitute other Level III elective courses offered by the Faculty of Sciences, with the approval of the Bachelor of Agricultural Sciences Program Coordinator.

4.4 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.

4.5 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.

5 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.

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

1 Duration of program

The program for the degree shall extend over three years of full-time study or the part-time equivalent.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- Status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- The candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules.
- A candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 following, that have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

- 3.3 a A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- b A candidate who fails to obtain a Pass or higher grade in a course and who desires to take the course again shall, unless exempted wholly or partially there from by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- c A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course that in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 4.2 below, to the value of 72 units.

4.2 Academic program

4.2.1 Level I

Passes in Level I courses, which shall include:

Semester 1	
BIOLOGY 1101 Biology I: Molecules Genes and Cells	3
CHEM 1100 Chemistry IA.....	3
<i>or</i>	
CHEM 1101 Foundations of Chemistry IA.....	3
FOOD SC 1001WT Food, Nutrition and Health I	3
FOOD SC 1000RG Introduction to Food Technology I.....	3
Semester 2	
BIOLOGY 1201 Biology I: Human Perspectives	3
CHEM 1200 Chemistry IB	3
<i>or</i>	
CHEM 1201 Foundations of Chemistry IB	3
FOOD SC 1002RG Practical Food Production I	3
STATS 1004 Statistical Practice I (Life Sciences)	3

4.2.2 Level II

Passes in Level II courses, which shall include:

Semester 1	
AGRIC 2500WT Animal and Plant Biochemistry II.....	3
FOOD SC 2505RG Food Quality & Regulation II.....	3
FOOD SC 2503RG Food Processing Technology II	3
PLANT SC 2500WT Microbiology & Invertebrate Biology II.....	3
Semester 2	
FOOD SC 2500RG Food Chemistry II	3
FOOD SC 2502RG Food Microbiology II.....	3
FOOD SC 2510WT Nutrition II	3
PHYSIOL 2520 Human Physiology IIB: Systems and Homeostasis	3

4.2.3 Level III

Passes in Level III courses, which shall include:

Semester 1	
FOOD SC 3500RG Food & Nutrition Science: Industry Experience III	3
FOOD SC 3504RG Food Engineering Principles III	3
PLANT SC 3500WT Biotechnology in the Food and Wine Industry III	3
WINEMKTG 3503WT Food Marketing III	3
Semester 2	
FOOD SC 3503RG Food Processing Technology III	3
FOOD SC 3502WT Nutrition III	3
FOOD SC 3021RG Food Product Development III	3
FOOD SC 3027RG Sensory Evaluation of Foods III	3

4.3 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.

4.4 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.

5 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.

Bachelor of Food and Nutrition Science (Honours)

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

1 Duration of program

- 1.1 The program of study for the degree shall extend over one year of full-time study, or over two years of consecutive part-time study, under conditions listed under Academic Program Rule 1.2.
- 1.2 In exceptional circumstances, and on application, the Bachelor of Food and Nutrition Science (Honours) program may be undertaken over two years of consecutive study. The grounds for granting permission to undertake Honours over two years are limited to the following:
 - i students with care-giver responsibilities
 - ii students in greater than or equal to half-time employment
 - iii students with a significant sickness or disability
 - iv students enrolled for part of the Honours program in an overseas institution
 - v compassionate reasons

Permission to undertake the program over two years should be sought at the time of the application prior to admission, or to the Manager, Student Services, after admission but before 31 March (or 31 August for students commencing mid-year).

2 Admission

- 2.1 An applicant, for the admission to the program of the Bachelor of Food and Nutrition Science (Honours), shall have qualified for a Bachelor degree of the Faculty of Sciences, or some other degree deemed by the Faculty to be appropriate preparation, and have completed a major sequence relevant to the appropriate Honours degree, or equivalent acceptable to the School.
- 2.2 A student may not enrol a second time for Honours in the same degree and School if the student:
 - i has presented for examination in that School but has failed to obtain Honours
 - or
 - ii withdraws from the program, unless the Faculty under Rule 3.3 permits the student to re-enrol.
- 2.3 An applicant who has obtained an Honours degree in a course or field of study in another School or equivalent may not obtain the Honours degree of Bachelor of Food and Nutrition Science in a corresponding course, field of study, or School of the Faculty of Sciences.

3 Assessment and examinations

- 3.1 A candidate who satisfies the requirements for Honours shall be awarded the degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class	80-100
2A	Second Class div A	70-79
2B	Second Class div B	60-69
3	Third Class	50-59
NAH	Not awarded	0-49

3.2 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, dissertation or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the School/s concerned. A candidate is required to meet regularly with his or her supervisor during the preparation and writing of the dissertation component of the program. Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

3.3 Academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine and to ensure that the student does not in effect spread the work of Honours over two years.

4 Qualification requirements

- 4.1 A student may proceed to the Honours degree in the courses listed in Rule 4.4 below, comprising coursework and a dissertation.
- 4.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School concerned, or their assigned delegate, before enrolment.
- 4.3 A student may not proceed to the Honours degree in a course that is not listed in Rule 4.4 below.

4.4 Academic program

A student may proceed to the Honours degree in the following course:

FOOD SC 4000AWT/BWT Honours Food and Nutrition Science.....24

4.5 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.

5 Special circumstances

When in the opinion of the relevant 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.

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

1 Duration of program

The program for the degree shall extend over four years of full-time study or the part-time equivalent. The first two years of the program shall follow the program of study for Level I and II of the Bachelor of Science (Viticulture) program as specified under the Academic Program Rule of 1.2 of that program.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

Note: Partial or full status for some Level I courses may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- Status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- The candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules.
- A candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 below that have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass ...with Credit, Pass.

- A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- A candidate who fails to obtain a Pass or higher grade in a course and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

- To qualify for the degree a candidate shall pass courses, listed in 4.2 below, to the value of 96 units that satisfy the following requirements:
 - a candidate shall present passes in courses to the value of 24 units at each of Level I and II in accordance with the rules of Bachelor of Science (Viticulture)
 - a candidate shall present passes in courses to the value of 24 units at each of Level III and IV in accordance with rules 4.2.1 and 4.2.2 below.

4.2 Academic program

4.2.1 Level III

Passes in Level III courses, which shall include:

Semester 1	
OENOLOGY 3007WT Stabilisation & Clarification III	3
OENOLOGY 3016WT Cellar and Winery Waste Management III.....	3
OENOLOGY 3047WT Winemaking at Vintage III.....	3
VITICULT 3021WT Viticultural Production III.....	3
Semester 2	
AGRIBUS 3017WT Business Management for Applied Science III	3

OENOLOGY 3037WT Distillation, Fortified and Sparkling Winemaking III	3
OENOLOGY 3046WT Fermentation Technology III	3
VITICULT 3501WT Engineering for Viticulture & Oenology	3

4.2.2 Level IV

Passes in Level III courses, which shall include:

- passes in core courses
Semester 1
Oenology course:
VITICULT 3500WT Grape Industry Practice, Policy and Communication III.....3
OENOLOGY 3500WT Industry Experience (Viticulture & Oenology) III.....3
Semester 2
OENOLOGY 3003WT Wine Packaging and Quality Management III.....3
OENOLOGY 3520WT Advances in Wine Science III
 - passes in additional courses to the value of 12 units chosen from
PLANT SC 3500WT Biotechnology in the Food and Wine Industries III.....3
SOIL&WAT 3020WT GIS for Agriculture and Natural Resource Management III
- OENOLOGY 4002AWT/BWT Honours Oenology.....12
- or
- from courses offered in the Faculty of Sciences selected in consultation with the Program Coordinator.

4.3 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.

4.4 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.

5 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.

Bachelor of Rural Enterprise Management

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

Note: not offered to commencing students from 2010

1 Duration of program

The program for the degree shall extend over one year of full-time study or the part-time equivalent.

2 Admission

2.1 Except as provided in 2.2 below, an applicant for admission to the program of study for the Bachelor of Rural Enterprise Management shall have qualified for the Diploma of Agricultural Production or for the South Australian TAFE Advanced Diploma in Rural Enterprise Management or for an award accepted by the Faculty of Sciences as equivalent to those qualifications for the purpose of this rule.

2.2 The Faculty may, subject to such conditions (if any) as it may wish to impose, accept as a candidate for the Bachelor of Rural Enterprise Management a person who does not qualify under 2.1 above, but has given evidence satisfactory to the Faculty of fitness to undertake the academic program.

2.3 Status, exemption and credit transfer

Candidates who have previously passed courses in programs in the University or other tertiary educational institutions may, on written application to the Faculty, be granted such status in appropriate courses in the academic program for the degree of Bachelor of Rural Enterprise Management as the Faculty in each case may determine.

3 Assessment and examinations

3.1 a A candidate shall not be eligible to attend for examination unless written and laboratory or other practical work, where required, has been completed to the satisfaction of the teaching staff concerned.

b In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass. In addition there shall be a classification of Conceded Pass. However, a candidate may only present a maximum of one course at the Conceded Pass level towards this award.

Courses for which a result of Conceded Pass has been obtained may not be presented towards a major in any discipline, nor as a prerequisite.

3.3 a A candidate who fails to pass in a course or who obtains a Conceded Pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of Department concerned, do written and laboratory, or other work in that course to the satisfaction of the teaching staff concerned.

b A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe. For the purpose of this clause a candidate who fails to receive permission to sit for or does not attend the examination in any course after having attended substantially the full program of instruction in it, shall be deemed to have failed to pass the course.

4 Qualification requirements

4.1 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.

4.2 Academic program

Candidates must pass courses to the value of not less than 24 units including a minimum of 20 units at Level III.

4.2.1 All candidates shall complete the compulsory courses:

AGRIBUS 3010RW International Agri-Business Environment III3
AGRIBUS 3012RW Rural Business Management III3

4.2.2 Candidates who have not previously completed the following courses or courses deemed by Faculty to be equivalent to those courses shall complete the following:

AGRIBUS 2502RW Rural Finance II3
WINEMKTG 1015EX Data Analysis for Wine and Food Business I3

4.2.3 Students must complete sufficient electives from the courses listed below to bring to a total value of 24 units the courses presented for the degree. To qualify for the Bachelor of Rural Enterprise Management students must have completed three courses from one of the production areas listed below. Choice of electives must be approved by the Program Coordinator.

General Electives

AGRIBUS 2009WT Issues in Australian Agribusiness II3
AGRIBUS 3001RW Economics of Resource Management III3
AGRIBUS 3017WT Business Management of Applied Sciences III3
WINEMKTG 2500WT Applied Management Science II3
WINEMKTG 2501WT/EX Applied Market Research II3
WINEMKTG 2502EX Consumer Behavioural Analysis II3
WINEMKTG 2505WT/EX Strategic Marketing Management II3
WINEMKTG 3014WT/EX Food Marketing III3
WINEMKTG 3034WT/EX Advertising and Promotion III3
Production Electives

Agronomy

AGRONOMY 2502RW Production Agronomy II3
AGRONOMY 3004RW Land Management Systems for the Future III3
AGRONOMY 3020RW Principles and Practice of Communications III3
AGRONOMY 3026RW Ecology & Management of Rangelands III (MY)*3

Animal Production

ANIML SC 2503RW Livestock Production Science II3
ANIML SC 3015RW Animal Nutrition and Metabolism III3
ANIML SC 3016RW Animal Health III3
ANIML SC 3045RW Animal Breeding and Genetics III3

Horticulture

HORTICUL 3000WT Production Horticulture III3
HORTICUL 3001WT Horticulture Systems III3

HORTICUL 3004WT Olive Production III and Marketing (MY)*3

Soil and Water

SOIL&WAT 3017WT Soil & Water: Management and Conservation III3
SOIL&WAT 3020WT GIS for Agriculture & Natural Resource Management III3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III3

*(MY) - taught in mid-year break

4.3 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.

5 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.

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

Students who commenced their program of study prior to 2008 will normally complete their course of study under the provision of the specific Academic Program Rules current at the time of commencement. Student should consult the University of Adelaide Calendar Handbook of Undergraduate Programs 2007.

On application to the Faculty, continuing students may be permitted to complete their studies under the current Academic Program Rules, with such modifications and stipulations as the Faculty may deem necessary.

1 Duration of program

The program of study for the degrees shall extend over three years of full-time study or the part-time equivalent.

Note: Students may commence study in February (Semester 1) or July (Semester 2). However, some courses offered in Semester 2 require prerequisite courses offered in Semester 1.

2 Admission

2.1 Status, exemption and credit transfer - all programs

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

Note: Partial or full exemption/status for some Level I courses may be granted on account of International Baccalaureate studies upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- Status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- The candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules
and
- The candidate shall present courses that satisfy the Level III course requirements and the major in a science discipline requirements

of the relevant Academic Program Rules, and which have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any courses offered by the Faculty of Sciences, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

- A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- A candidate who fails to obtain a Pass or higher grade in a course and who desires to take the course again shall, unless exempted wholly or partially there from by the Head of School concerned, undertake written and laboratory and/or other work in that course to the satisfaction of the teaching staff concerned.
- A candidate who has twice failed to obtain a Pass or higher grade in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall, subject to the conditions and modifications specified under 4.3 and 4.4 below, pass courses from 4.5 below to the value of 72 units which satisfy the following requirements:

- a candidate shall present passes in Level I courses to the value of not more than 30 units

which must include SCIENCE 1100 Principles and Practice of Science I

- a candidate shall present passes in Level III courses to the value of at least 24 units
- a candidate shall complete a major in a science discipline as set out in 4.4 below.

In all cases, 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.

- 4.2 As part of the requirements of 4.1 above, a candidate may, in lieu of Level I or II courses, present passes to the value of 9 units, no more than 6 units at Level I, in courses offered by the Faculty of Humanities and Social Sciences, the Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design. Passes in courses offered by other Faculties may also be presented, provided the enrolment is approved both by the Faculty of Sciences and the other School or Faculty.

4.3 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.

- 4.4 To complete a major in a Science discipline a candidate shall present Level III courses, for which a result of Pass, Pass with Credit, Pass with Distinction or Pass with High Distinction has been obtained. No candidate may present the same course towards more than one major. A major must satisfy one of the following criteria:

Anatomical Sciences

At least three of:

- ANAT SC 3101 Anthropological & Forensic Anatomy III3
- ANAT SC 3102 Comparative Reproductive Biology of Mammals III3
- ANAT SC 3103 Integrative & Comparative Neuroanatomy III3
- ANAT SC 3104 Structural Cell Biology III3

Biochemistry

- BIOCHEM 3000 Molecular & Structural Biology III6
- BIOCHEM 3001 Cancer, Stem Cells & Developmental Biology III6

Botany

- ENV BIOL 3006 Research Methods in Environmental Biology III3
- and at least two of:
- ENV BIOL 3002 Australian Biota: Past, Present and Future III3
 - ENV BIOL 3009 Ecophysiology of Plants III3
 - PLANTS SC 3500WT Soil and Plant Nutrition3

Chemistry

- CHEM 3111 Chemistry III6
- and at least two of following Chemistry courses:
- CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
 - CHEM 3212 Materials Chemistry III3
 - CHEM 3213 Advanced Synthetic Methods III3
 - CHEM 3214 Medicinal & Biological Chemistry III3
 - CHEM 3530 Environmental & Analytical Chemistry III3
 - CHEM 3540 Research Methods in Chemistry III3

Chemistry - Double Major

- CHEM 3111 Chemistry III6
- and at least four of following Chemistry courses:
- CHEM 3213 Advanced Synthetic Methods III3
 - CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
 - CHEM 3212 Materials Chemistry III3
 - CHEM 3214 Medicinal & Biological Chemistry III3
 - CHEM 3530 Environmental & Analytical Chemistry III3
 - CHEM 3540 Research Methods in Chemistry III3

Ecology

- ENV BIOL 3121 Concepts in Ecology III3
 - ENV BIOL 3006 Research Methods in Environmental Biology III3
- and at least two of:
- ENV BIOL 3004 Freshwater Ecology III3
 - ENV BIOL 3008 Conservation & Restoration III3
 - ENV BIOL 3010 Marine Ecology III3
 - SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III3

Ecology and Spatial Science

- ENV BIOL 3121 Concepts in Ecology III3
- ENV BIOL 3006 Research Methods in Environmental Biology III3

SOIL&WAT 3010 Remote Sensing III.....	3
SOIL&WAT 3007WT GIS for Environmental Management III.....	3
and at least two of:	
ENV BIOL 3004 Freshwater Ecology III.....	3
ENV BIOL 3008 Conservation & Restoration III.....	3
ENV BIOL 3010 Marine Ecology III.....	3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III.....	3
Geology	
GEOLOGY 3013 Tectonics III.....	3
GEOLOGY 3016 Igneous & Metamorphic Geology III.....	3
GEOLOGY 3019 Field Geoscience Program III.....	3
GEOLOGY 3505 Basins, Sediments and Regolith III.....	3
Geophysics and Applied Geology	
GEOLOGY 3008 Geophysics III.....	3
GEOLOGY 3502 Mineral and Energy Resources III.....	3
GEOLOGY 3500 Exploration Methods III.....	3
and	
SOIL&WAT 3010 Remote Sensing III.....	3
or	
SOIL&WAT 3007WT GIS for Environmental Management.....	3
Genetics	
GENETICS 3111 Genes, Genomes & Molecular Evolution III.....	6
GENETICS 3211 Genetic Expression & Human and Developmental Genetics III.....	6
Microbiology and Immunology	
MICRO 3000 Infection and Immunity IIIA.....	6
MICRO 3001 Infection and Immunity IIIB.....	6
Molecular and Biomedical Science	
Courses to the value of 12 units taken from the courses offered by the disciplines of Biochemistry, Genetics, Microbiology & Immunology, and Physiology. (This major is only available to student wishing to undertake study overseas. Students wishing to take out this major must apply in writing to the Faculty and have their program of study approved prior to commencing study overseas).	
Pharmacology	
PHARM 3010 Pharmacology A III.....	6
PHARM 3011 Pharmacology B III.....	6

Physics	
PHYSICS 3002 Experimental Physics III.....	3
PHYSICS 3542 Physics III.....	6
Experimental and Theoretical Physics	
Courses to the value of at least 18 units, which include:	
PHYSICS 3002 Experimental Physics III.....	3
and	
PHYSICS 3542 Physics III.....	6
and at least one of:	
PHYSICS 3006 Advanced Dynamics and Relativity III.....	3
or	
PHYSICS 3544 Quantum Mechanics III.....	3
Together with additional Physics courses as required:	
PHYSICS 3532 Atmospheric & Astrophysics III.....	3
PHYSICS 3534 Computational Physics III.....	3
PHYSICS 3540 Optics & Photonics III.....	3
Theoretical Physics	
PHYSICS 3542 Physics III.....	6
and	
PHYSICS 3006 Advanced Dynamics and Relativity III.....	3
or	
PHYSICS 3544 Quantum Mechanics III.....	3
Physiology	
PHYSIOL 3000 Advanced Systems Physiology III.....	6
PHYSIOL 3001 Neurobiology III.....	6
Psychology	
PSYCHOL 3020 Doing Research in Psychology: Advanced Research Design, Methods & Analysis.....	3
and at least three of following Psychology courses:	
PSYCHOL 3021 Health & Lifespan Developmental Psychology.....	3
PSYCHOL 3022 Individual Differences, Personality & Assessment.....	3
PSYCHOL 3023 Perception, Cognition & Neuropsychology.....	3
PSYCHOL 3024 Psychology in Society: Advanced.....	3
PSYCHOL 3025 Psychology, Ideas and Action.....	3

Soil Science	
SOIL&WAT 3017WT Soil & Water: Management & Conservation III.....	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III.....	3
and an additional course from the following:	
GEOLOGY 3504 Basins, Sediments and Regoliths III.....	3
PLANT SC 3500WT Soil and Plant Nutrition III.....	3
SOIL&WAT 3004WT Environmental Toxicology & Remediation.....	3
Zoology	
ENV BIOL 3003 Ecophysiology of Animals III.....	3
ENV BIOL 3006 Research Methods in Environmental Biology III.....	3
ENV BIOL 3011 Evolution and Diversity of Insects III.....	3
ENV BIOL 3122 Evolution and Palaeobiology of Animals III.....	3
Notes (not forming part of the Academic Program Rules)	
1 Pattern of study	
Commencing students are encouraged to enrol in one of the recommended Foundation Packages that have been developed to ensure appropriate preparation for Level II and III studies. Information on foundation packages is available from the Faculty of Sciences Office or at www.sciences.adelaide.edu.au/current/ However, provided that they comply with the prerequisites for each course, students may select their own combinations of courses at first and subsequent year levels. It is highly recommended that at Level I students take a minimum of 9 units per semester of continuing courses to ensure pathways into Level II science courses. At Level II students are encouraged to take a minimum of 6 units per semester of continuing courses to enable pathways into Level III science courses and the completion of a major. Full-time students normally take courses with an aggregate value of 24 units at each of levels I, II and III.	
2 Work required to complete an Adelaide degree program (policy of the Faculty of Sciences)	
a Graduates in another Faculty who wish to qualify for the degree of Bachelor of Science and to count towards that degree courses that have already been presented for another degree may do so, provided that the courses presented fulfil the requirements of 4.1 and 4.2 above, and include a major in a science discipline and Level III courses to the value of	

at least 24 units that have not been presented for any other degree.

- b Students coming from other institutions and wishing to obtain a University of Adelaide degree, are required as a minimum to complete Level III courses from 4.5 with an aggregate units value of 24 including a major in a science discipline.
 - c With the special permission of the Faculty, a student who has completed most of the degree at the University of Adelaide including Level III courses with an aggregate value of 12 units and a major in a science discipline may be permitted to complete the requirements for the degree at another institution. All applications must be made in writing to the Faculty.
- 3 Under certain circumstances, and only with prior approval from the Faculty, courses to the value of not more than 6 units selected from the following list may be presented towards the degree of Bachelor of Science in lieu of Level III courses:
 - AGRONOMY 3026RW Ecology & Management of Rangelands (MY)*.....
 - 3
 - PATHOL 3003 General Pathology IIIB.....
 - 6
 - PLANT SC 3030AEX/BEX Integrated Weed Management.....
 - 3
 Student wishing to present any of these courses towards the B.Sc. must apply in writing to the Faculty Office prior to enrolling in these courses.
 - ***(MY) - taught in the mid-year break**
 - 4 A candidate may present up to 48 units of courses not listed in 4.5, but passed under another program offered by the Faculty of Sciences, towards completion of the Bachelor of Science program. Note that the candidate is still required to complete all other qualification requirements specified in 4.1, 4.2, 4.3 and 4.4 to qualify for the degree.
 - 5 A candidate who has completed a major in a Science discipline as defined in 4.4, and also completes courses that fulfil requirements for a major as specified under the rules for the Bachelor of Mathematical and Computer Sciences, shall be awarded that Mathematical and Computer Sciences major in addition to the Science major.

4.5 Academic program

4.5.1 Level I Sciences

Semester 1	
BIOLOGY 1101 Biology I: Molecules, Genes & Cells.....	3
CHEM 1100 Chemistry IA.....	3
CHEM 1101 Foundations of Chemistry IA**.....	3

FOOD SC 1001WT Food, Nutrition and Health I	3
GEOLOGY 1103 Earth Systems I	3
PHYSICS 1008 Physical Aspects of Nature I	3
PHYSICS 1100 Physics IA	3
PHYSICS 1101 Physics for the Life & Earth Sciences IA	3
PSYCHOL 1000 Psychology IA	3
SCIENCE 1100 Principles and Practice of Science I	3
Semester 2	
BIOLOGY 1201 Biology I: Human Perspectives*	3
BIOLOGY 1202 Biology I: Organisms*	3
CHEM 1200 Chemistry IB	3
CHEM 1201 Foundations of Chemistry IB**	3
ENV BIOL 1002 Ecological Issues I	3
GEOLOGY 1100 Earth's Interior I	3
PHYSICS 1002 Astronomy I	3
PHYSICS 1200 Physics IB	3
PHYSICS 1201 Physics for the Life & Earth Sciences IB	3
PSYCHOL 1001 Psychology IB	3

*Only one of BIOLOGY 1201 Biology I: Human Perspectives and BIOLOGY 1202 Biology I: Organisms may be presented towards the B.Sc.

** Students who successfully complete CHEM 1101 Foundations of Chemistry IA and CHEM 1201 Foundations of Chemistry IB and who wish to continue their study of Chemistry at Level II will be required to undertake an additional course, CHEM 1300 Foundations of Chemistry IS, during Summer School (offered for the first time in 2013) before commencing Level II Chemistry studies.

Note: Students will be required to enrol and participate in SCIENCE 1000 Science Mentoring

4.5.2 Level I Mathematical & Computer Sciences

COMP SCI 1101 Introduction to Programming	3
COMP SCI 1102 Object Orientated Programming	3
MATHS 1011 Mathematics IA	3
MATHS 1012 Mathematics IB	3
MATHS 1013 Mathematics IMA	3
STATS 1000 Statistical Practice I	3
STATS 1004 Statistical Practice (Life Sciences) I	3
STATS 1005 Statistical Analysis and Modelling I	3

Note: COMP SCI 1003 Internet Computing cannot be presented towards the Bachelor of Science.

4.5.3 Level II Science

Semester 1	
ANAT SC 2500 Cells and Tissues II	3
BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology	3
CHEM 2510 Chemistry IIA	3
CHEM 2530 Environmental & Analytical Chemistry II	3
ENV BIOL 2500 Botany II	3
ENV BIOL 2503 Zoology II	3
GENETICS 2510 Genetics IIA	3
GEOLOGY 2500 Sedimentary Geology II	3
GEOLOGY 2501 Structural Geology II	3
MICRO 2500 Microbiology II	3
PHYSICS 2510 Physics IIA	3
PHYSIOL 2510 Human Physiology IIA	3
PSYCHOL 2004 Doing Research in Psychology: Research Design, Methods & Analysis	3
PSYCHOL 2006 Foundations of Perception & Cognition	3
SOIL&WAT 2500WT Soil & Water Resources II	3
SOIL&WAT 2501 Spatial Information and Land Evaluation II	3
Semester 2	
ANAT SC 2501 Comparative Anatomy of Body Systems II	3
BIOCHEM 2501 Biochemistry II: Metabolism	3
CHEM 2520 Chemistry IIB	3
CHEM 2540 Medicinal & Biological Chemistry II	3
ENV BIOL 2501 Evolutionary Biology II	3
ENV BIOL 2502 Ecology II	3
GENETICS 2520 Genetics IIB	3
GEOLOGY 2502 Igneous and Metamorphic Geology II	3
GEOLOGY 2503 Landscape Processes and Environments II	3
MICRO 2501 Immunology & Virology II	3
PHYSICS 2520 Physics IIB	3
PHYSICS 2530 Astrophysics II	3
PHYSICS 2532 Classical Physics II	3
PHYSICS 2534 Electromagnetism II	3
PHYSIOL 2520 Human Physiology IIB	3
PSYCHOL 2005 Foundations of Health & Lifespan Developmental Psychology	3
PSYCHOL 2007 Psychology in Society	3

4.5.4 Level II Mathematical & Computer Sciences

All Level II Mathematical and Computer Sciences courses, listed under Academic Program Rule 4.2.2.1 of the degree of Bachelor of Mathematical and Computer Sciences.

4.5.5 Level III Science

Semester 1	
ANAT SC 3102 Comparative Reproductive Biology of Mammals III	3
ANAT SC 3103 Integrative and Comparative Neuroanatomy III	3
BIOCHEM 3000 Molecular and Structural Biology III	6
CHEM 3111 Chemistry III	6
CHEM 3530 Environmental & Analytical Chemistry III	3
CHEM 3540 Research Methods in Chemistry III	3
ENV BIOL 3004 Freshwater Ecology III	3
ENV BIOL 3006 Research Methods in Environmental Biology III	3
ENV BIOL 3011 Evolution and Diversity of Insects III	3
ENV BIOL 3121 Concepts in Ecology III	3
ENV BIOL 3002 Australian Biota: Past, Present & Future III	3
GEOLOGY 3013 Tectonics III	3
GEOLOGY 3016 Igneous & Metamorphic Geology III	3
GEOLOGY 3500 Exploration Methods III	3
GEOLOGY 3008 Geophysics III	3
GENETICS 3111 Genes, Genomes and Molecular Evolution III	6
MICRO 3000 Infection and Immunity IIIA	6
PHARM 3010 Pharmacology A III	6
PHYSIOL 3001 Neurobiology III	6
PHYSICS 3006 Advanced Dynamics & Relativity III	3
PHYSICS 3532 Astrophysics & Atmospheric Physics III	3
PHYSICS 3542 Physics III	6
PLANT SC 3131WT Integrated Pest Management III	3
PLANT SC 3200WT Plant Breeding III	3
PSYCHOL 3022 Individual Differences, Personality & Assessment	3
PSYCHOL 3026 Learning and Behaviour	3
PSYCHOL 3027 Psychology, Science and Society	3

SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III	3
SOIL&WAT 3022WT Soil Management & Conservation III	3
Semester 2	
AGRONOMY 3000RW Agroforestry III	3
ANAT SC 3101 Anthropological and Forensic Anatomy III	3
ANAT SC 3104 Structural Cell Biology III	3
BIOCHEM 3001 Cancer, Stem Cells & Developmental Biology III	6
CHEM 3211 Heterocyclic Chemistry and Molecular Devices III	3
CHEM 3212 Materials Chemistry III	3
CHEM 3213 Advanced Synthetic Methods III	3
CHEM 3214 Medicinal and Biological Chemistry III	3
ENV BIOL 3003 Ecophysiology of Animals III	3
ENV BIOL 3008 Conservation & Restoration III	3
ENV BIOL 3009 Ecophysiology of Plants III	3
ENV BIOL 3010 Marine Ecology III	3
ENV BIOL 3012WT Integrated Catchment Management III	3
ENV BIOL 3122 Evolution and Palaeobiology of Animals III	3
GEOLOGY 3502 Mineral and Energy Resources III	3
GEOLOGY 3504 Basins, Sediments and Regolith III	3
GEOLOGY 3019 Field Geoscience Program III	3
GENETICS 3211 Gene Expression & Human and Developmental Genetics III	6
MICRO 3001 Infection and Immunity IIIB	6
PHARM 3011 Pharmacology B III	6
PHYSIOL 3000 Advanced Systems Physiology	6
PHYSICS 3002 Experimental Physics III	3
PHYSICS 3534 Computational Physics III	3
PHYSICS 3540 Optics & Photonics III	3
PHYSICS 3544 Quantum Mechanics III	3
PLANT SC 3500WT Soil and Plant Nutrition III	3
PLANT SC 3009WT Plant Molecular Biology III	6
PSYCHOL 3020 Doing Research in Psychology: Advanced Research Design, Methods & Analysis	3
PSYCHOL 3021 Health & Lifespan Developmental Psychology	3

Bachelor of Science (Advanced)

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

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

1 Academic Progress

A candidate must maintain the prescribed level of performance for progression from each of Levels I, II, and III. Any candidate who fails to maintain a minimum cumulative GPA of 5.00 or greater (based on the first attempt result for each course) may be required to transfer into the Bachelor of Science program. Candidates in this position will be written to in December of the year concerned to show cause. The letter will outline the show cause procedures.

2 Qualification requirements

2.1 To qualify for the degree a candidate shall pass courses to the value of 72 units which satisfy the following requirements:

- a a candidate shall present passes in Level I courses to the value of not more than 30 units
- b a candidate shall present passes in Level III courses to the value of at least 24 units
- c a candidate shall complete a major in a science discipline as set out in 2.3.3 below, and may complete an additional major in accordance with Academic Program Rule 4.4 in the Bachelor of Science.

In all cases, 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.

2.3 Academic program

2.3.1 Level I Sciences

Level I courses, which shall include:

- i passes in core course
 - Semester 1
 - SCIENCE 1100 Principles and Practice of Science I.....3
 - ii passes in level I courses to the value of 9 units chosen from:
 - Semester 1
 - BIOLOGY 1101 Biology I: Molecules, Genes & Cells.....3
 - CHEM 1100 Chemistry IA.....3
 - CHEM 1101 Foundations of Chemistry IA.....3
 - GEOLOGY 1103 Earth Systems I3

- MATHS 1011 Mathematics IA.....3
- MATHS 1013 Mathematics IMA.....3
- PHYSICS 1008 Physical Aspects of Nature I3
- PHYSICS 1100 Physics IA3
- PHYSICS 1101 Physics for the Life & Earth Sciences IA.....3
- iii passes in level I courses to the minimum value of 9 units chosen from:

- Semester 2
 - BIOLOGY 1201 Biology I: Human Perspectives*3
 - BIOLOGY 1202 Biology I: Organisms*3
 - CHEM 1200 Chemistry IB3
 - CHEM 1201 Foundations of Chemistry IB.....3
 - GEOLOGY 1100 Earth's Interior I.....3
 - MATHS 1011 Mathematics IA.....3
 - MATHS 1012 Mathematics IB.....3
 - PHYSICS 1200 Physics IB.....3
 - PHYSICS 1201 Physics for the Life & Earth Sciences IB.....3

*Only one of BIOLOGY 1201 Biology I: Human Perspectives and BIOLOGY 1202 Biology I: Organisms may be presented towards the B.Sc (Advanced).

** Students who successfully complete CHEM 1101 Foundations of Chemistry IA and who wish to continue their study of Chemistry at Level II will be required to undertake an additional course, CHEM 1300 Foundations of Chemistry IS during Summer School (offered for the first time in 2013) before commencing Level II Chemistry studies.

- iv if required, passes in additional level I course to the value of 3 units chosen from:

- Semester 2
 - ENV BIOL 1002 Ecological Issues I.....3
 - STATS 1000 Statistical Practice I.....3
 - STATS 1004 Statistical Practice (Life Sciences) I.....3
 - PHYSICS 1002 Astronomy I3
- or
 - courses selected in accordance with Academic Program Rule 4.2 of the Bachelor of Science.

PSYCHOL 3023 Perception & Cognition.....3	3
SOIL&WAT 3010 Remote Sensing III.....3	3
SOIL&WAT 3017WT Soil & Water: Management & Conservation III3	3
Summer semester	
SOIL&WAT 3004WT Environmental Toxicology and Remediation III3	3
SOIL&WAT 3007WT GIS for Environmental Management III.....3	3
Winter semester	
SOIL&WAT 3020WT GIS for Agriculture & Natural Resource Management.....3	3

4.5.6 Level III Mathematical & Computer Sciences

All Level III Mathematical and Computer Sciences courses listed under the Academic Program Rule 4.2.3.1 of the degree of Bachelor of Mathematical and Computer Sciences.

4.6 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.

5 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.

2.3.2 Level II Science

- i passes in core course
Semester 1
SCIENCE 2100 Principles and Practice of Research II.....3
 - ii passes in level II courses to the minimum value of 6 units chosen from:
Semester 1
BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology3
CHEM 2510 Chemistry IIA.....3
ENV BIOL 2500 Botany II3
ENV BIOL 2503 Zoology II3
GENETICS 2510 Genetics IIA: Foundation of Genetics3
GEOLOGY 2500 Sedimentary Geology II.....3
GEOLOGY 2501 Structural Geology II3
MICRO 2500 Microbiology II.....3
PHYSICS 2510 Physics IIA3
SOIL&WAT 2500WT Soil & Water Resources II.....3
SOIL&WAT 2501 Spatial Information and Land Evaluation II3
MATHS 2101 Multivariable & Complex Calculus ^3
MATHS 2102 Differential Equations ^3
 - iii passes in level II courses to the minimum value of 6 units chosen from:
Semester 2
BIOCHEM 2501 Biochemistry II: Metabolism3
CHEM 2520 Chemistry IIB3
ENV BIOL 2501 Evolutionary Biology II.....3
ENV BIOL 2502 Ecology II3
GENETICS 2520 Genetics IIB: Function & Diversity of Genomes.....3
GEOLOGY 2502 Igneous and Metamorphic Geology II3
GEOLOGY 2503 Landscape Processes and Environments II3
MICRO 2501 Immunology & Virology II3
PHYSICS 2520 Physics IIB.....3
PHYSICS 2530 Astrophysics II.....3
PHYSICS 2532 Classical Physics II.....3
PHYSICS 2534 Electromagnetism II3
- ^ students enrolling in MATHS 2101 Multivariable & Complex Calculus and MATHS 2102 Differential Equations ^ must choose their additional 6 units from Academic Program 2.3.2ii.

- iv If required, passes in additional level II course to the maximum value of 9 units chosen in accordance with Academic Program Rules 4.2, 4.5.3 and 4.5.4 of the Bachelor of Science.

2.3.3 Level III Science

- Level III courses which shall include:
- i pass in core course:
SCIENCE 3100 Principles and Practice of Research (Advanced) III.....3
 - ii passes in core courses in a Science discipline major to a minimum value of 9 units:
- For a major in Biochemistry**
BIOCHEM 3000 Molecular & Structural Biology III6
BIOCHEM 3001 Cancer, Stem Cells & Developmental Biology III6
- For a major in Botany**
ENV BIOL 3006 Research Methods in Environmental Biology.....3
and at least two of:
ENV BIOL 3002 Australian Biota: Past, Present and Future III.....3
ENV BIOL 3009 Ecophysiology of Plants III.....3
PLANT SC 3500WT Soil & Plant Nutrition III3
- For a major in Chemistry**
CHEM 3111 Chemistry III.....6
and at least two of the following Chemistry courses:
CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
CHEM 3212 Materials Chemistry III.....3
CHEM 3213 Advanced Synthetic Methods III.....3
CHEM 3214 Medicinal & Biological Chemistry III.....3
CHEM 3530 Environmental & Analytical Chemistry III.....3
CHEM 3540 Research Methods in Chemistry III.....3
- For a Double major in Chemistry**
CHEM 3111 Chemistry III.....6
and at least four of the following Chemistry courses:
CHEM 3213 Advanced Synthetic Methods III.....3
CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
CHEM 3212 Materials Chemistry III.....3
CHEM 3214 Medicinal & Biological Chemistry III3
CHEM 3530 Environmental & Analytical Chemistry III.....3

- CHEM 3540 Research Methods in Chemistry III3
- For a major in Ecology**
ENV BIOL 3121 Concepts in Ecology III3
ENV BIOL 3006 Research Methods in Environmental Biology III3
and at least two of:
ENV BIOL 3004 Freshwater Ecology III.....3
ENV BIOL 3008 Conservation & Restoration III3
ENV BIOL 3010 Marine Ecology III.....3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III3
- For a double major in Ecology and Spatial Science**
SOIL&WAT 3007WT GIS for Environmental Management3
ENV BIOL 3121 Concepts in Ecology III3
ENV BIOL 30006 Research Methods in Environmental Biology III3
SOIL&WAT 3010 Remote Sensing III.....3
and at least two of the following:
ENV BIOL 3004 Freshwater Ecology III3
ENV BIOL 3008 Conservation & Restoration III3
ENV BIOL 3010 Marine Ecology III.....3
SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III3
- For a major in Geology**
GEOLOGY 3013 Tectonics III3
GEOLOGY 3016 Igneous & Metamorphic Geology III3
GEOLOGY 3019 Field Geoscience Program III3
GEOLOGY 3504 Basins, Sediments & Regoliths III3
- For a major in Geophysics and Applied Geology**
GEOLOGY 3008 Geophysics III.....3
GEOLOGY 3500 Exploration Methods III.....3
GEOLOGY 3502 Mineral and Energy Resources III.....3
SOIL&WAT 3010 Remote Sensing III.....3
- or
SOIL&WAT 3007WT GIS for Environmental Management3
- For a major in Genetics**
GENETICS 3111 Genes, Genomes & Molecular Evolution III.....6
GENETICS 3211 Genetic Expression & Human and Developmental Genetics III.....6

For a major in Microbiology and Immunology

- MICRO 3000 Infection and Immunity IIIA.....6
- MICRO 3001 Infection and Immunity IIIB.....6

For a major in Physics

- PHYSICS 3002 Experimental Physics III3
 - PHYSICS 3542 Physics III6
- and another Level III Physics course.

For a major in Experimental and Theoretical Physics

- Courses to the value of at least 18 units, which include:
PHYSICS 3002 Experimental Physics III3
and
PHYSICS 3542 Physics III6
and at least one of
PHYSICS 3006 Advanced Dynamics and Relativity III3
or
PHYSICS 3544 Quantum Mechanics III.....3
Together with additional Physics courses as required:
PHYSICS 3532 Atmospheric & Astrophysics III.....3
PHYSICS 3534 Computational Physics III3
PHYSICS 3540 Optics & Photonics III3
For a major in Theoretical Physics
PHYSICS 3542 Physics III6
and
PHYSICS 3006 Advanced Dynamics and Relativity III3
or
PHYSICS 3544 Quantum Mechanics III.....3
and another Level III Physics course.

For a major in Soil Science

- Courses to the value of 12 units, which include:
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III3
SOIL&WAT 3017WT Soil & Water: Management & Conservation3
and two of the following courses:
GEOLOGY 3504 Basins, Sediments & Regoliths.....3
PLANT SC 3500WT Soil and Plant Nutrition III.....3
SOIL&WAT 3004WT Environmental Toxicology & Remediation3

For a major in Zoology

- ENV BIOL 3006 Research Methods in

Environmental Biology III.....	3
ENV BIOL 3011 Evolution & Biodiversity of Insects III.....	3
ENV BIOL 3003 Ecophysiology of Animals III.....	3
ENV BIOL 3122 Evolution & Palaeobiology III.....	3
ii passes in additional level III courses chosen in accordance with Academic Program Rules 4.5.5 and 4.5.6 of the Bachelor of Science.	

AGRONOMY 3026RW Ecology & Management of Rangelands (MY)*.....	3
PATHOL 3003 General Pathology IIIHS.....	6
PLANT SC 3030AEX/BEX Integrated Weed Management.....	3
Student wishing to present any of these courses towards the B.Sc. must apply in writing to the Faculty Office prior to enrolling in these courses.	

*(MY) - taught in the mid-year break

2.4 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.

Notes (not forming part of the Academic Program Rules)

- 1 Work required to complete an Adelaide degree program (policy of the Faculty of Sciences)
 - a Graduates in another Faculty who wish to qualify for the degree of Bachelor of Science (Advanced) and to count towards that degree courses that have already been presented for another degree may do so, provided that the courses presented fulfil the requirements of 2.1 and 2.2 above, and include a major in a science discipline and Level III courses to the value of at least 24 units that have not been presented for any other degree.
 - b Students coming from other institutions and wishing to obtain a University of Adelaide degree, are required as a minimum to complete Level III courses from 2.2.3 with an aggregate units value of 24 including a major in a science discipline.
 - c With the special permission of the Faculty, a student who has completed most of the degree at the University of Adelaide including Level III courses with an aggregate value of 12 units and a major in a science discipline may be permitted to complete the requirements for the degree at another institution. All applications must be made in writing to the Faculty.
- 2 No candidate may present the same course towards more than one major.
- 3 Under certain circumstances, and only with prior approval from the Faculty, courses to the value of not more than 6 units selected from the following list may be presented towards the degree of Bachelor of Science in lieu of Level III courses in 2.3.3ii:

Bachelor of Science (Animal Science)

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

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

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.

1.2 Academic program

1.2.1 Level I

Level I courses, which shall include:

- i passes in core courses
 - Semester 1
 - ANIML SC 1015RW Animal Handling & Husbandry I3
 - BIOLOGY 1101 Biology I: Molecules, Genes and Cells3
 - CHEM 1100 Chemistry IA3
 - or
 - CHEM 1101 Foundations of Chemistry IA3
 - Semester 2
 - ANIML SC 1016RW Principles in Animal Behaviour, Welfare & Ethics I3
 - BIOLOGY 1202 Biology I: Organisms3
 - CHEM 1200 Chemistry IB3
 - or
 - CHEM 1201 Foundations of Chemistry IB3
 - STATS 1004 Statistical Practice 1 (Life Sciences)*3
- ii passes in additional courses to the value of 3 units chosen from:
 - Semester 1
 - PHYSICS 1008 Physical Aspects of Nature I3
 - or
 - PHYSICS 1101 Physics for the Life and Earth Sciences IA3

Semester 2
 ENV BIOL 1002 Ecological Issues I3

* STATS 1004 Statistical Practice I (Life Sciences) may be taken in Semester 1 or 2.

1.2.2 Level II

Level II courses, which shall include passes in core courses:

- Semester 1
 - AGRIC 2500RW Animal and Plant Biochemistry II3
 - ANIML SC 2500RW Companion Animal and Equine Studies II3
 - ANIML SC 2502RW Wildlife Management II3
 - ANIML SC 2506RW Comparative Animal Anatomy & Physiology IIA3
- Semester 2
 - ANIML SC 2501RW Genes and Inheritance II3
 - ANIML SC 2503RW Livestock Production Science II3
 - ANIML SC 2507RW Comparative Animal Anatomy & Physiology IIB3
 - ANIML SC 2520RW Research Methodology for Animal Sciences II3

1.2.3 Level III

Level III courses, which shall include:

- i passes in core courses
 - Semester 1
 - ANIML SC 3045RW Animal Breeding and Genetics III3
 - ANIML SC 3046RW Animal Reproduction and Development III3
 - ANIML SC 3020RW Animal Microbiology and Invertebrates III3
 - Semester 2
 - ANIML SC 3100RW Laboratory Animal Science III3
 - ANIML SC 3015RW Animal Nutrition & Metabolism III3
 - ANIML SC 3016RW Animal Health III3
- ii passes in additional courses to the value of 6 .

units chosen from:

- Summer semester
 - ANIML SC 3019RW Ecology & Management of Vertebrate Pests III3
 - ANIML SC 3043RW Animal Biotechnology III3
 - ANIML SC 3018RW Pig Production - Science into Management III3
- Semester 1
 - ENV BIOL 3121 Concepts in Ecology III3
 - ENV BIOL 2504 Zoology II3
 - ENV BIOL 3002 Australian Biota: Past, Present & Future III3
 - PLANT SC 2510WT Foundations of Plant Science3
 - AGRIBUS 3500WT Agricultural Economics & Policy III3
 - ENV BIOL 3011 Evolution & Diversity of Insects III3
- Winter
 - ANIML SC 3240RW Introduction to Aquaculture and Disease Management III3
 - ANIML SC 3250RW Animals and the Law III3
- Semester 2
 - AGRIBUS 3017WT Business Management for Applied Science III3
 - AGRONOMY 3026RW Ecology and Management of Rangelands III (MY)*3
 - ENV BIOL 3008 Conservation Restoration III3
 - ENV BIOL 3003 Ecophysiology of Animals III3
 - AGRIBUS 2520WT Agribusiness II3
 - AGRIC 3500WT Professional Skills In Agricultural Science III**3

*(MY) - taught in mid-year break

** Students that enrol in this course are required to complete a total of 12 weeks of work experience throughout University vacations by the start of the semester of enrolment. Consult with the Program Co-ordinator for requirements.

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.

Bachelor of Science (Biomedical Science)

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

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

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 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
 - CHEM 1100 Chemistry IA.....3
 - or
 - CHEM 1101 Foundations of Chemistry IA.....3
 - Semester 2
 - BIOLOGY 1201 Biology I: Human Perspectives.....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 12 units (which may include BIOLOGY 1202 Biology I: Organisms) 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 to the value of 6 units:
 - Semester 1
 - BIOMED 2510 Biomedical Science IIA.....3
 - Semester 2
 - BIOMED 2520 Biomedical Science IIB.....3
- ii passes in courses to the value of at least 12 units from:
 - Semester 1
 - BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology3
 - and
 - Semester 2
 - BIOCHEM 2501 Biochemistry II: Metabolism3
 - Semester 1
 - GENETICS 2510 Genetics IIA: Foundation of Genetics.....3
 - and
 - Semester 2
 - GENETICS 2520 Genetics IIB: Function & Diversity of Genomes.....3
 - Semester 1
 - MICRO 2500 Microbiology II3
 - and
 - Semester 2
 - MICRO 2501 Immunology and Virology II3
- iii passes in additional Level II courses to the value of up to 6 units in accordance with Academic Program Rules 4.5.3 and 4.5.4 for the degree of Bachelor of Science, or in accordance with Academic Program Rule 4.2 for the degree of Bachelor of Science including approved courses* in the Faculty of Health Sciences that are not already covered by 4.5.3.

* approved courses will be determined by agreement between the Faculty of Sciences and the Faculty of Health Sciences; contact the Program Coordinator for a list of such courses.

1.2.3 Level III

Level III courses, which shall include:

- i passes in core courses to the value of 12 units:
 - For a major in Biochemistry:
 - Semester 1
 - BIOCHEM 3230 Molecular and Structural Biology III (Biomedical Science)6
 - Semester 2
 - BIOCHEM 3235 Cancer, Stem Cells & Developmental Biology III (Biomedical Science).....6
 - For a major in Genetics:
 - Semester 1
 - GENETICS 3111 Genes, Genomes and Molecular Evolution III.....6
 - Semester 2
 - GENETICS 3212 Gene Expression and Human and Developmental Genetics (Biomedical Science) III.....6
 - For a major in Microbiology and Immunology:
 - Semester 1
 - MICRO 3102 Infection and Immunity IIIA (Biomedical Science)6
 - Semester 2
 - MICRO 3202 Infection and Immunity IIIB (Biomedical Science)6
- ii passes in additional Level III course to the value of 12 units in the disciplines of Anatomical Sciences, Biochemistry, Chemistry, Genetics, Microbiology and Immunology, Pharmacology or Physiology selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 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.

2 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.

Bachelor of Science (Biotechnology)

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

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

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 IIA3
CHEM 2530 Environmental & Analytical Chemistry II3
ENV BIOL 2503 Zoology II3
GENETICS 2510 Genetics IIA Foundation of Genetics3
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 II3
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 III6
Semester 2
BIOTECH 3000 Biotechnology Practice III.....6
- ii passes in additional Level III course to the value of 12 units chosen from:
Semester 1
CHEM 3111 Chemistry III.....6
GENETICS 3111 Genes, Genomes and Molecular Evolution III.....6
MICRO 3000 Infection and Immunity IIIA.....6
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
CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
CHEM 3212 Materials Chemistry III3
CHEM 3213 Advanced Synthetic Methods III3
CHEM 3214 Medicinal & Biological Chemistry III.....3
GENETICS 3211 Gene Expression & Human & Developmental Genetics6
MICRO 3001 Infection and Immunity IIIB.....6
PLANT SC 3009WT Plant Molecular Biology III6
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.

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

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

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 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
 - CHEM 1100 Chemistry IA.....3
 - or
 - CHEM 1101 Foundations of Chemistry IA.....3
 - GEOLOGY 1103 Earth Systems I.....3
 - Semester 2
 - BIOLOGY 1202 Biology I: Organisms3
 - and/or
 - ENV BIOL 1002 Ecological Issues I3
 - CHEM 1200 Chemistry IB.....3
 - or
 - CHEM 1201 Foundations of Chemistry IB3
 - GEOLOGY 1100 Earth's Interior I.....3
- ii passes in additional Level I course up to the value of 6 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 but not including BIOLOGY 1201 Biology I: Human Perspectives.

1.2.2 Level II

Level II courses, which shall include:

- i passes in core courses
 - Semester 1
 - CHEM 2512 Chemistry IIA (Ecochemistry).....3
 - CHEM 2530 Environmental & Analytical Chemistry II.....3
 - Semester 2
 - CHEM 2522 Chemistry IIB (Ecochemistry)3
 - CHEM 2540 Medicinal & Biological Chemistry II.....3
- ii passes in Level II courses to the value of 6 units chosen from:
 - Semester 1
 - at least one from:
 - ENV BIOL 2500 Botany II.....3
 - GEOLOGY 2500 Sedimentary Geology II3
 - SOIL&WAT 2500WT Soil & Water Resources II.....3
 - Semester 2
 - at least one from:
 - ENV BIOL 2502 Ecology II.....3
 - GEOLOGY 2503 Landscape Processes and Environments II.....3
- iii passes in additional Level II courses to the value of 6 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.2 and 4.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses, which shall include:

- i passes in core courses:
 - Semester 1
 - CHEM 3111 Chemistry III6
 - CHEM 3530 Environmental & Analytical Chemistry III3
 - Semester 2
 - CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
 - CHEM 3212 Materials Chemistry III3

- ii passes in additional Level III course to the value of 9 units chosen from:
 - Summer semester
 - SOIL&WAT 3004WT Environmental Toxicology and Remediation III.....3
 - Semester 1
 - CHEM 3540 Research Methods in Chemistry III*3
 - ENV BIOL 3004 Freshwater Ecology III3
 - ENV BIOL 3121 Concepts in Ecology II3
 - SOIL&WAT 3017WT Soil & Water: Management and Conservation III.....3
 - SOIL&WAT 3016WT Soil Ecology and Nutrient Cycling III.....3
 - Semester 2
 - CHEM 3213 Advanced Synthetic Methods III3
 - CHEM 3214 Medicinal & Biological Chemistry III3
 - CHEM 3542 Research Methods in Chemistry III (ND)*3
 - ENV BIOL 3008 Conservation and Restoration.....3
 - ENV BIOL 3009 Ecophysiology of Plants III.....3
 - ENV BIOL 3010 Marine Ecology III3
 - ENV BIOL 3012WT Integrated Catchment Management III #3
 - GEOLOGY 3504 Basins, Sediments and Regoliths III3
 - SOIL&WAT 3010 Remote Sensing III3

* Students should undertake either CHEM3540 (Semester 1) or CHEM 3542(Semester 2)

Semester 2 course taught in mid-semester break

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.

Bachelor of Science (Evolutionary Biology)

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

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

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.

MATHS 1012 Mathematics IB3

STATS 1004 Statistical Practice I (Life Sciences)#3

or

courses 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.

***may be taken in either Semester 1 or 2**

#STATS 1004 Statistical Practice I (Life Sciences) may be taken in Semester 1 or 2.

1.2.2 Level II

Level II courses, which shall include:

For a major in Palaeontology

- i passes in core courses
 - Semester 1
 - ENV BIOL 2500 Botany II.....3
 - ENV BIOL 2503 Zoology II.....3
 - Semester 2
 - ENV BIOL 2501 Evolutionary Biology II.....3
 - ii passes in additional Level II courses to the value of 15 units chosen from:
 - Semester 1
 - GENETICS 2510 Genetics IIA: Foundations of Genetics3
 - GEOLOGY 2500 Sedimentary Geology II.....3
 - GEOLOGY 2501 Structural Geology II.....3
 - Semester 2
 - ENV BIOL 2502 Ecology II.....3
 - GENETICS 2520 Genetics IIB: Function & Diversity of Genomes3
 - GEOLOGY 2503 Landscape Processes and Environments II.....3
- or
- additional Level II or III courses in the disciplines Environmental Biology, Geology selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 for 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 & Cells.....3
 - GEOLOGY 1103 Earth Systems3
 - Semester 2
 - BIOLOGY 1202 Biology I: Organisms3
 - GEOLOGY 1100 Earth's Interior I.....3
- ii passes in additional Level I courses to the value of 12 units chosen from:
 - Semester 1
 - CHEM 1100 Chemistry IA3

or

 - CHEM 1101 Foundations of Chemistry IA.....3
 - MATHS 1011 Mathematics IA*3

or

 - MATHS 1013 Mathematics IMA3- Semester 2
 - ENV BIOL 1002 Ecological Issues I3
 - CHEM 1200 Chemistry IB.....3

or

 - CHEM 1201 Foundations of Chemistry IB3
 - MATHS 1011 Mathematics IA*3

For a major in Systematic & Molecular Evolution

- i passes in core courses
 - Semester 1
 - ENV BIOL 2500 Botany II.....3
 - ENV BIOL 2503 Zoology II.....3
 - GENETICS 2510 Genetics IIA: Foundations of Genetics3
 - Semester 2
 - ENV BIOL 2501 Evolutionary Biology II3
 - GENETICS 2520 Genetics IIB: Function & Diversity of Genomes3
- ii passes in additional Level II courses to the value of 9 units chosen from:
 - Semester 1
 - GEOLOGY 2500 Sedimentary Geology II3
 - Semester 2
 - ENV BIOL 2502 Ecology II.....3
 - GEOLOGY 2503 Landscape Processes and Environments II.....3

or

additional Level II or III courses in the disciplines Environmental Biology, Geology selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses, which shall include:

For a major in Palaeontology

- i passes in core courses
 - Semester 1
 - ENV BIOL 3002 Australian Biota: Past, Present & Future III3
 - Semester 2
 - ENV BIOL 3122 Evolution & Palaeobiology of Animals III.....3
 - ENV BIOL 3123 Issues in Evolutionary Biology III3
- ii passes in additional Level III courses to the value of at least 15 units chosen from:
 - Semester 1
 - ENV BIOL 3006 Research Methods in Environmental Biology III3
 - ENV BIOL 3011 Evolution and Diversity of Insects III.....3
 - ENV BIOL 3121 Concepts in Ecology III3

- GENETICS 3111 Genes, Genomes & Molecular Evolution III.....6
- Semester 2
 - SOIL&WAT 3010 Remote Sensing III.....3
 - ENV BIOL 3003 Ecophysiology of Animals III.....3
 - ENV BIOL 3008 Conservation & Restoration III3
 - ENV BIOL 3009 Ecophysiology of Plants III.....3
 - ENV BIOL 3010 Marine Ecology III3
 - GENETICS 3211 Gene Expression & Human Developmental Genetics III.....6

or

additional Level III courses in the disciplines Environmental Biology, Geology selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 for the degree of Bachelor of Science.

For a major in Systematics & Molecular Evolution

- i passes in core courses:
 - Semester 1
 - ENV BIOL 3002 Australian Biota: Past, Present & Future III.....3
 - GENETICS 3111 Genes, Genomes & Molecular Evolution III.....6
 - Semester 2
 - ENV BIOL 3122 Evolution & Palaeobiology of Animals III.....3
 - ENV BIOL 3123 Issues in Evolutionary Biology III3
- ii passes in additional Level III courses to the value of 9 units chosen from:
 - Semester 1
 - ENV BIOL 3006 Research Methods in Environmental Biology III3
 - ENV BIOL 3011 Evolution and Diversity of Insects III.....3
 - ENV BIOL 3121 Concepts in Ecology III3
 - Semester 2
 - SOIL&WAT 3010 Remote Sensing3
 - ENV BIOL 3003 Ecophysiology of Animals III.....3
 - ENV BIOL 3008 Conservation & Restoration III3
 - ENV BIOL 3009 Ecophysiology of Plants III.....3

ENV BIOL 3010 Marine Ecology III	3
GENETICS 3211 Gene Expression & Human Developmental Genetics III	6
GEOLOGY 3504 Basins, Sediments and Regolith III	3

or

additional Level III courses in the disciplines Environmental Biology, Geology selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 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.

Bachelor of Science (Marine Biology)

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

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

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 candidate shall present passes in courses to the value of 24 units at each of Level I, II and III
 - 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
 - a candidate may 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:

- passes in core courses
Semester 1
BIOLOGY 1101 Biology I: Molecules Genes & Cells.....3
GEOLOGY 1103 Earth Systems I.....3
Semester 2
BIOLOGY 1202 Biology I: Organisms3
ENV BIOL 1002 Ecological Issues I3
STATS 1004 Statistical Practice I (Life Sciences)*3
*** STATS 1004 Statistical practice I (Life Sciences) may be taken in Semester 1 or 2.**

- 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 4.5.1 for the degree of Bachelor of Science

or

Level I courses (maximum of 6 units) offered by the Faculty of Humanities and Social Sciences, the Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design. Passes in courses offered by other Faculties may also be presented, provided the enrolment is approved both by

the Faculty of Sciences and the other School or Faculty.

1.2.2 Level II

Level II courses, which shall include:

- passes in core courses
Semester 1
ENV BIOL 2500 Botany II.....3
ENV BIOL 2503 Zoology II.....3
GEOLOGY 2500 Sedimentary Geology II3
Semester 2
ENV BIOL 2502 Ecology II.....3
- passes in additional Level II course to the value of 12 units chosen from:
Semester 1
SOIL&WAT 2501 Spatial Information & Land Evaluation II3
GEOG 2143 Introduction to Environmental Impact Assessment#3
GEOG 2130 Managing Coastal Environments#3
These courses are offered in alternate years
Semester 2
GEOG 2139 Environmental Management.....3

or

additional courses selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses, which shall include:

- passes in core courses
Semester 1
ENV BIOL 3006 Research Methods in Environmental Biology III3
ENV BIOL 3121 Concepts in Ecology III3
ENV BIOL 3124 Frontiers in Marine Biology III3
Semester 2
ENV BIOL 3010 Marine Ecology III3

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

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

1 Qualification requirements

1.1 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.

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

A candidate shall present passes in courses to the value of 24 units at each of Level I, II and III.

1.3 Academic program

1.3.1 Level I

Level I courses, which shall include:

- i passes in core courses
 - Semester 1
 - GEOLOGY 1103 Earth Systems I.....3
 - MATHS 1011 Mathematics IA.....3
 - or
 - Semester 2
 - MATHS 1013 Mathematics IMA.....3
 - STATS 1000 Statistical Practice I.....3
- ii passes in an additional Level I courses to the value of 15 units selected from the list below or, in accordance with Academic Program Rules , 4.5.1 and 4.5.2 for the degree of Bachelor of Science, or Level I courses (maximum of 6 units) offered by the Faculty of Humanities and Social Sciences, the Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design. Passes in courses offered by other Faculties may also be presented, provided the enrolment is approved both by the Faculty of Sciences and the other School or Faculty.

The following courses are recommended:

- Semester 1
 - CHEM 1100 Chemistry IA3
 - or
 - CHEM 1101 Foundations of Chemistry IA3
 - PHYSICS 1008 Physical Aspects of Nature I3
 - or
 - PHYSICS 1101 Physics for the Life & Earth Sciences IA3
- Semester 2
 - CHEM 1200 Chemistry IB.....3
 - or
 - CHEM 1201 Foundations of Chemistry IB3

Note: STATS 1004 Statistical Practice I (Life Sciences) may be taken in semester 2 instead of STATS 1000 Statistical Practice I in semester 1.

1.3.2 Level II

Level II courses, which shall include:

- i passes in core courses
 - Semester 1
 - GEOLOGY 2500 Sedimentary Geology II.....3
 - GEOLOGY 2501 Structural Geology II.....3
 - Semester 2
 - GEOLOGY 2502 Igneous & Metamorphic Geology II3
 - GEOLOGY 2503 Landscape Processes and Environments II.....3
 - GEOLOGY 2504 Economic and Mine Geology3
- ii passes in two Level II GEOG courses* or additional Level II courses to the value of 9 units selected in accordance with Academic Program Rules 4.2 and 4.5.3 for the degree of Bachelor of Science and with approval of the Program Coordinator.

* Chosen from a list designated by the Program Coordinator.

1.3.3 Level III

Level III courses, which shall include:

ENV BIOL 3221 Research Methods in Marine Biology III3

ii passes in additional Level III courses to the value of 9 units chosen from:

- Summer semester
 - SOIL&WAT 3007WT GIS for Environmental Management III.....3
- Semester 1
 - ENV BIOL 3004 Freshwater Ecology III.....3
 - GEOG 2131 Managing Coastal Environments#3
- Semester 2
 - SOIL&WAT 3010 Remote Sensing III.....3
 - GEOG 2143 Introduction to Environmental Impact Assessment#.....3

#These courses are offered in alternate years

Or additional courses selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 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.

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

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

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 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 & Cells3
CHEM 1100 Chemistry IA3
or
CHEM 1101 Foundations of Chemistry IA.....3
STATS 1004 Statistical Practice I (Life Sciences)*3
Semester 2
BIOLOGY 1201 Biology I: Human Perspectives3
CHEM 1200 Chemistry IB3
or
CHEM 1201 Foundations of Chemistry IB3
STATS 1004 Statistical Practice I (Life Sciences)*3
***STATS 1004 Statistical Practice I (Life Sciences) may be taken in semester 1 or 2**
- ii passes in additional Level I course 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 2500 Biochemistry II: Molecular and Cell Biology3
CHEM 2514 Chemistry IIA (Molecular and Drug Design)3
CHEM 2530 Environmental & Analytical Chemistry II3
Semester 2
BIOCHEM 2501 Biochemistry II: Metabolism .3
CHEM 2524 Chemistry IIB (Molecular and Drug Design)3
CHEM 2540 Medicinal and Biological Chemistry II3
- ii passes in additional Level II course to the value of 6 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 for the degree of Bachelor of Science.

1.2.3 Level III

Level III courses, which shall include:

- i passes in core courses
Semester 1
BIOCHEM 3000 Molecular & Structural Biology III6
CHEM 3111 Chemistry III6
Semester 2
CHEM 3213 Advanced Synthetic Methods III3
CHEM 3214 Medicinal & Biological Chemistry III3
- ii passes in additional Level III course to the value of 6 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 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,

- i passes in core courses
Semester I
GEOLOGY 3013 Tectonics III3
GEOLOGY 3016 Igneous and Metamorphic Geology III.....3
GEOLOGY 3008 Geophysics III3
GEOLOGY 3500 Exploration Methods III3
Semester 2
GEOLOGY 3502 Mineral and Energy Resources III.....3
GEOLOGY 3019 Field Geoscience Program III.....3
GEOLOGY 3021 Mineral Geoscience Industry Project III3
- ii passes in an additional Level III course to the value of 6 units selected in accordance with Academic Program Rules 4.5.5 for the degree of Bachelor of Science.

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.

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.

Bachelor of Science (Molecular Biology)

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

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

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 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 & Cells3
 - CHEM 1100 Chemistry IA3
 - Or
 - CHEM 1101 Foundations of Chemistry IA.....3
 - Semester 2
 - BIOLOGY 1201 Biology I: Human Perspectives3
 - CHEM 1200 Chemistry IB.....3
 - or
 - CHEM 1201 Foundations of Chemistry IB3
- ii passes in additional Level I course to the value of 12 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 2510 Advanced Molecular Biology IIA.....3
- CHEM 2510 Chemistry IIA3
- and either
- BIOCHEM 2500 Biochemistry II: Molecular and Cell Biology3
- or
- GENETICS 2510 Genetics IIA: Foundation of Genetics3
- Semester 2
- BIOCHEM 2520 Advanced Molecular Biology IIB.....3
- and
- CHEM 2520 Chemistry IIB.....3
- or
- CHEM 2540 Medicinal and Biological Chemistry II3
- and either
- BIOCHEM 2501 Biochemistry II: Metabolism3
- or
- GENETICS 2520 Genetics IIB: Function and Diversity of Genomes.....3
- ii passes in additional Level II course to the value of 6 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 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 to the value of 12 units
 - For a major in Biochemistry
 - Semester 1
 - BIOCHEM 3125 Advanced Molecular Biology IIIA (Biochemistry)6
 - Semester 2
 - BIOCHEM 3225 Advanced Molecular Biology IIIB (Biochemistry).....6
 - For a major in Genetics
 - Semester 1

GENETICS 3110 Advanced Molecular
Biology IIIA (Genetics)6

Semester 2

GENETICS 3210 Advanced Molecular
Biology IIIB (Genetics)6

- ii passes in additional Level III course to the value of 12 units selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.5 for the degree of Bachelor of Science in the disciplines of Anatomical Sciences, Biochemistry, Chemistry, Genetics, Microbiology and Immunology, Pharmacology or Physiology.

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.

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

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

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 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
 - CHEM 1100 Chemistry IA3
 - or*
 - CHEM 1101 Foundations of Chemistry IA.....3
 - PHYSICS 1100 Physics IA*3
 - or*
 - PHYSICS 1101 Physics for the Life & Earth Sciences IA3
 - or*
 - PHYSICS 1008 Physical Aspects of Nature I3
 - and*
 - BIOLOGY 1101 Biology I: Molecules, Genes and Cells3
 - Semester 2
 - CHEM 1200 Chemistry IB.....3
 - or*
 - CHEM 1201 Foundations of Chemistry IB3
 - PHYSICS 1200 Physics IB**3
 - or*
 - PHYSICS 1201 Physics for the Life & Earth Sciences IB3
 - and*

- BIOLOGY 1201 Biology I: Human Perspectives3
- or*
- BIOLOGY 1202 Biology I: Organisms3
- ii passes in additional Level I course to the value of 6 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.
- * Requires MATHS 1011 Mathematics IA as a corequisite**
- ** Requires MATHS 1012 Mathematics IB as a corequisite**

1.2.2 Level II

Level II courses, which shall include:

- i passes in core courses
 - Semester 1
 - CHEM 2516 Chemistry IIA (Nanoscience & Materials).....3
 - CHEM 2530 Environmental & Analytical Chemistry II3
 - Semester 2
 - CHEM 2526 Chemistry IIB (Nanoscience & Materials)3
 - CHEM 2540 Medicinal and Biological Chemistry II3
 - ii passes in additional Level II course to the value of 12 units 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
 - Semester 1
 - CHEM 3111 Chemistry III6
 - Semester 2
 - CHEM 3211 Heterocyclic Chemistry & Molecular Devices III3
 - CHEM 3212 Materials Chemistry III3
 - CHEM 3213 Advanced Synthetic

Methods III3

- ii passes in additional Level III course to the value of 9 units 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.

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

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

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.

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
 - GEOLOGY 1103 Earth Systems I.....3
 - Semester 2
 - BIOLOGY 1202 Biology I: Organisms3
 - ENV BIOL 1002 Ecological Issues I3
 - GEOLOGY 1100 Earth's Interior I.....3
 - STATS 1004 Statistical Practice I (Life Sciences)*3
- ii passes in additional Level I course to the value of 6 units chosen from:
 - CHEM 1100 Chemistry IA3
 - or*
 - CHEM 1101 Foundations of Chemistry IA.....3
 - or*
 - Level I courses selected in consultation with the Program Coordinator and in accordance with Academic Program Rules , 4.5.1 and 4.5.2 for the degree of Bachelor of Science or Level I courses (maximum of 6 units) offered by the Faculty of Humanities and Social Sciences, the Faculty of Engineering, Computer and Mathematical Sciences, and the School of Architecture, Landscape Architecture and Urban Design. Passes in courses offered by other Faculties may also be presented, provided the enrolment is approved both by the Faculty of

Sciences and the other School or Faculty.

* STATS 1004 Statistical Practice I (Life Sciences) may be taken in Semester 1 or 2.

1.2.2 Level II

Level II courses, which shall include:

- i passes in core courses
 - Semester 1
 - ENV BIOL 2500 Botany II.....3
 - GEOLOGY 2500 Sedimentary Geology II3
 - SOIL&WAT 2500WT Soil & Water Resources II.....3
 - SOIL&WAT 2501 Spatial Information and Land Evaluation II3
 - Semester 2
 - ENV BIOL 2502 Ecology II.....3
- ii passes in additional Level II course to the value of 9 units chosen from:
 - GEOLOGY 2503 Landscape Processes & Environments II3
 - GEOG 2143 Introduction to Environmental Impact Assessment.....3
 - and*
 - from Level II courses 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
 - Summer semester
 - SOIL&WAT 3007WT GIS for Environmental Management III3
 - or*
 - Winter semester
 - SOIL&WAT 3020WT GIS for Agriculture & Natural Resource Management III.....3
- Semester 1
 - GEOLOGY 3500 Exploration Methods III3
- Semester 2

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

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

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 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
 - PHYSICS 1100 Physics IA3
 - MATHS 1011 Mathematics IA3
 - Semester 2
 - PHYSICS 1200 Physics IB3
 - MATHS 1012 Mathematics IB3
- ii passes in additional Level I courses to the value of 12 units chosen from:
 - Semester 1
 - COMP SCI 1012 Scientific Computing I3
 - CHEM 1100 Chemistry IA3
 - ELEC ENG 1009 Electrical & Electronic Engineering IA3
 - Semester 2
 - CHEM 1200 Chemistry IB3
 - COMP SCI 1101 Introduction to Programming3
 - ELEC ENG 1010 Electrical & Electronic Engineering IB3
 - STATS 1005 Statistical Analysis and Modelling I3

or

courses selected in consultation with the

1.2.2 Level II

Level II courses, which shall include:

- i passes in core courses
 - Semester 1
 - MATHS 2101 Multivariable and Complex Calculus3
 - MATHS 2102 Differential Equations3
 - PHYSICS 2510 Physics IIA3
 - Semester 2
 - PHYSICS 2525 Physics IIB (Optics & Photonics)3
 - PHYSICS 2532 Classical Physics II3
 - PHYSICS 2534 Electromagnetism II3
- ii passes in additional Level II course to the value of 6 units chosen from:
 - Semester 1
 - CHEM 2510 Chemistry IIA3
 - ELEC ENG 2008 Electronics II3
 - MATHS 2103 Probability & Statistics3
 - PURE MTH 2106 Algebra3
 - Semester 2
 - CHEM 2520 Chemistry IIB3
 - ELEC ENG 2007 Signals and Systems II3
 - MATHS 2100 Real Analysis3
 - PHYSICS 2530 Astrophysics II3

or

courses 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
 - Semester 1
 - PHYSICS 3542 Physics III6
 - Semester 2

ENV BIOL 3220 Issues in Sustainable Environments III3

- ii passes in additional Level III course to the value of 15 units chosen from at least two of the following thematic groupings (at least 6 units chosen in each of the chosen thematic grouping):

Land & Water Management

Summer semester

SOIL&WAT 3004WT Environmental Toxicology & Remediation III3

Semester 1

SOIL&WAT 3017WT Soil & Water: Management & Conservation III3

SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III3

Semester 2

AGRONOMY 3000RW Agroforestry III3

AGRONOMY 3026RW Ecology & Management of Rangelands III *3

ENV BIOL 3012WT Integrated Catchment Management III3

* taught in mid-year break

Conservation & Wildlife Ecology

Full year

PLANT SC 3030AEX/BEX Integrated Weed Management III3

Summer semester

ANIML SC 3019RW Ecology and Management of Vertebrate Pests III3

Semester 1

ENV BIOL 3004 Freshwater Ecology III3

ENV BIOL 3006 Research Methods in Environmental Biology III3

ENV BIOL 3121 Concepts in Ecology III3

Semester 2

ENV BIOL 3010 Marine Ecology III3

ENV BIOL 3008 Conservation & Restoration III3

Environmental Geoscience

Semester 1

SOIL&WAT 3017WT Soil & Water: Management & Conservation III3

Semester 2

SOIL&WAT 3010 Remote Sensing III3

GEOLOGY 3505 Basins Sediments and Regolith III3

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.

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

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

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 no more than 30 units at Level I
 - b a candidate shall present passes in courses to the value of no more than 18 units at Level II
 - c a candidate shall present passes in courses to the value of 24 units at Level III
 - d 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.

- PHYSICS 1101 Physics for the Life & Earth Sciences IA3
- or*
- PHYSICS 1008 Physical Aspects of Nature I3
- Semester 2
- CHEM 1200 Chemistry IB.....3
- or*
- CHEM 1201 Foundations of Chemistry IB3
- PHYSICS 1200 Physics IB3
- or*
- PHYSICS 1201 Physics for the Life & Earth Sciences IB3

1.2 Academic program

1.2.1 Level I

Level I courses, which shall include:

- i passes in core courses
 - Semester 1
 - GEOLOGY 1103 Earth Systems I.....3
 - MATHS 1011 Mathematics IA3
 - or*
 - MATHS 1013 Mathematics IMA3
 - Semester 2
 - GEOLOGY 1100 Earth's Interior I.....3
 - MATHS 1011 Mathematics IA3
 - or*
 - MATHS 1012 Mathematics IB3
- ii passes in additional Level I courses to the value of 12 units selected in accordance with Academic Program Rules 4.2, 4.5.1 and 4.5.2 for the degree of Bachelor of Science, which must include at least one of the following per semester:
 - Semester 1
 - CHEM 1100 Chemistry IA3
 - or*
 - CHEM 1101 Foundations of Chemistry IA.....3
 - PHYSICS 1100 Physics IA3
 - or*

1.2.2 Level II

Level II courses, which shall include passes in core courses:

- Semester 1
- GEOLOGY 2500 Sedimentary Geology II.....3
- GEOLOGY 2501 Structural Geology II3
- PETROENG 1005 Introduction to Petroleum Geosciences & the Oil Industry3
- PETROENG 2010 Drilling Engineering3
- Semester 2
- GEOLOGY 2502 Igneous & Metamorphic Geology II3
- GEOLOGY 2503 Landscape Processes and Environments II3
- PETROENG 1006 Introduction to Petroleum Engineering3
- PETROENG 2009 Formation Evolution, Petrophysics & Rock Properties3

1.2.3 Level III

Level III courses, which shall include passes in core courses:

- Semester 1
- GEOLOGY 3013 Tectonics III3
- GEOLOGY 3020 Reservoir Geoscience Project III3
- GEOLOGY 3008 Geophysics III3
- GEOLOGY 3500 Exploration Methods3

- PHYSICS 3537 Experimental Physics III (Optics & Photonics).....3
- PHYSICS 3540 Optics and Photonics III.....3
- PHYSICS 3544 Quantum Mechanics III.....3
- ii passes in additional Level III course to the value of 9 units chosen from:
 - Semester 1
 - APP MATHS 3017 Waves III3
 - ELEC ENG 3016 Control III3
 - ELEC ENG 3018 RF Engineering III.....3
 - PHYSICS 3532 Atmospheric and Astrophysics III.....3
 - PHYSICS 3006 Advanced Dynamics and Relativity III3
 - Semester 2
 - ELEC ENG 3019A/B Practical Electrical and Electronic Design III3
 - PHYSICS 3534 Computational Physics III3
 - or*
 - courses 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.

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

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

1 Academic Progress

- 1.1 A candidate must maintain the prescribed level of performance for progression from each of Levels I, II, and III. Any student who fails to maintain a minimum cumulative GPA of 4.00 or greater (based on the first attempt result for each course) will be determined to be making unsatisfactory progress and will be required to show cause why they should not be excluded from the program. Students in this position will be written to in December of the year concerned. The letter will outline the show cause procedures.
- 1.2 A candidate who does not maintain the level of performance prescribed in 1.1 may not proceed with the Bachelor of Science (Pre-Veterinary) program and will be required to transfer into the Bachelor of Science (Animal Science) program.

2 Qualification requirements

- 2.1 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.
- 2.2 To qualify for the degree a candidate shall pass courses, listed in 2.3 and 2.4 below, to the value of 72 units.

2.3 Academic program

2.3.1 Level I

Semester 1	
ANIML SC 1017RW Animal Handling & Husbandry I (Pre-Vet)	3
BIOLOGY 1510 Biology I: Molecules, Genes and Cells (Pre-Vet).....	3
CHEM 1510 Chemistry IA (Pre-Vet)	3
<i>or</i>	
CHEM 1511 Foundations of Chemistry IA (Pre-Vet).....	3
PHYSICS 1501 Physics for the Life and Earth Sciences IA (Pre-Vet)	3
<i>or</i>	
PHYSICS 1508 Physical Aspects of Nature I (Pre-Vet)	3

Semester 2

ANIML SC 1018RW Principles in Animal Behaviour, Welfare and Ethics I (Pre-Vet).....	3
BIOLOGY 1520 Biology I: Organisms (Pre-Vet).....	3
CHEM 1520 Chemistry IB (Pre-Vet).....	3
<i>or</i>	
CHEM 1521 Foundations of Chemistry IB (Pre-Vet).....	3
STATS 1504 Statistical Practice I (Life Sciences) (Pre-Vet).....	3

2.3.2 Level II

Semester 1

AGRIC 2501RW Animal & Plant Biochemistry II (Pre-Vet).....	3
VET SC 2500RW Veterinary Skills II (Pre-Vet)	3
VET SC 2510ARW Animal Form & Function II (Pre-Vet)	6

Semester 2

ANIML SC 2505RW Animal Nutrition & Metabolism II (Pre-Vet)	3
ANIML SC 2508RW Genes and Inheritance II (Pre-Vet)	3
VET SC 2510BRW Animal Form & Function II (Pre-Vet)	6

2.3.3 Level III

Semester 1

VET SC 3510ARW Animal Form and Function III	6
VET SC 3512RW Veterinary Immunology, Microbiology & Public Health III	6

Semester 2

VET SC 3510BRW Animal Form and Function III	6
VET SC 3513RW Veterinary Parasitology & Epidemiology III.....	3
VET SC 3514RW Veterinary Skills III.....	3

2.4 Extra-mural program

A total of 12 weeks of extra-mural experience is required to be undertaken during the University vacations. This can begin from the mid-semester break holidays in Level I and is to be completed

Semester 2

GEOLOGY 3019 Field Geoscience Program III	3
SOIL&WAT 3010 Remote Sensing III.....	3
GEOLOGY 3504 Basins, Sediments and Regolith III	3

with

additional Level III courses to the value of 3 units, chosen from:

PETROENG 3019 Structural Geology & Seismic Methods	3
GEOLOGY 3502 Mineral and Energy Resources III.....	3

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.

before the end of year exams in Level III of the program. . Before beginning a period of extra mural experience, a candidate is required to ensure that it will be satisfactory to the Faculty by consulting the Extra Mural Coordinator or nominee.

Upon completion of each period of extra mural experience, a candidate is required to submit a statement of practical experience gained, certified by the employer for approval by the Extra Mural Coordinator or nominee.

2.5 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.

3 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.

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

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

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 not more than 30 units at Level I
 - b candidate shall present passes in courses to the value of at least 24 units at Level III
 - c 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
 - d a candidate may 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
 - MATHS 1011 Mathematics IA3
 - PHYSICS 1100 Physics IA3
 - Semester 2
 - MATHS 1012 Mathematics IB3
 - PHYSICS 1200 Physics IB3
 - PHYSICS 1007 Space Science & Astrophysics I3
- ii passes in additional Level I courses to the value of not more than 9 units chosen from:
 - Semester 1
 - COMP SCI 1101 Introduction to Programming3
 - GEOLOGY 1103 Earth Systems3
 - STATS 1000 Statistical Practice I3
 - Semester 2
 - COMP SCI 1102 Object Orientated Programming3
 - GEOLOGY 1100 Earth's Interior I3
 - PHYSICS 1005 Physics, Ideas and Society I3

- STATS 1005 Statistical Analysis and Modelling I3
- or
- 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
 - MATHS 2101 Multivariable and Complex Calculus3
 - MATHS 2102 Differential Equations3
 - PHYSICS 2510 Physics IIA3
 - Semester 2
 - PHYSICS 2520 Physics IIB3
 - PHYSICS 2534 Electromagnetism II3
 - PHYSICS 2536 Space Science and Astrophysics II3
- ii passes in additional Level II courses chosen from:
 - Semester 2
 - PHYSICS 2532 Classical Physics II3
- or
- 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, or selected courses listed for the Bachelor degree of Engineering (Aerospace).

1.2.3 Level III

Level III courses, which shall include:

- i passes in core courses
 - Semester 1
 - PHYSICS 3532 Atmospheric and Astrophysics III3
 - PHYSICS 3542 Physics III6
 - Semester 2
 - PHYSICS 3002 Experimental Physics III3

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

1 Duration of program

- 1.1 The program of study for the degree shall extend over one year of full-time study, or over two years of consecutive part-time study under conditions listed under Academic Program Rule 1.2.
- 1.2 In exceptional circumstances, and on application, the Bachelor of Science (Honours) program may be undertaken over two years of consecutive part-time study. The grounds for granting permission to undertake Honours over two years are limited to the following:
 - i students with care-giver responsibilities
 - ii students in greater than or equal to half-time employment
 - iii students with a significant sickness or disability
 - iv students enrolled for part of the Honours program in an overseas institution
 - v compassionate reasons.

Permission to undertake the program over two years should be sought at the time of application prior to admission, or to the Manager, Student Services, after admission but before 31 March (or 31 August for students commencing mid-year).

2 Admission

- 2.1 An applicant, for the admission to the program of the Bachelor of Science (Honours), shall have qualified for a Bachelor degree of the Faculty of Sciences, or some other degree deemed by the Faculty to be appropriate preparation, and have completed a major sequence relevant to the appropriate Honours degree, or equivalent acceptable to the School.
- 2.2 A student may not enrol a second time for Honours in the same degree and School if the student:
 - i has presented for examination in that School but has failed to obtain Honours
 - or
 - ii withdraws from the program, unless the Faculty under Rule 3.3 permits the student to re-enrol.
- 2.3 An applicant who has obtained an Honours degree in a course or field of study in another School or equivalent may not obtain the Honours degree of Bachelor of Science in a corresponding course, field of study, or School of the Faculty of Sciences.

3 Assessment and examinations

- 3.1 A candidate who satisfies the requirements for Honours shall be awarded the degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1 First Class	80-100
2A Second Class div A	70-79
2B Second Class div B	60-69
3 Third Class	50-59
NAH Not awarded	0-49

3.2 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, dissertation or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the School/s concerned. A candidate is required to meet regularly with his or her supervisor during the preparation and writing of the dissertation component of the program. Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

3.3 Academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine and to ensure that the student does not in effect spread the work of Honours over two years.

4 Qualification requirements

- 4.1 A student may proceed to the Honours degree in one of the courses listed in Rule 4.4 below, comprising coursework and a dissertation.
- 4.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School/s concerned, or their assigned delegate/s, before enrolment.
- 4.3 A student may not proceed to the Honours degree in a course that is not listed in Rule 4.4 below.

- ii passes in additional Level III course to the value of 12 units chosen from:

Semester 2

PHYSICS 3534 Computational Physics III3

PHYSICS 3540 Optics and Photonics III.....3

or

courses 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 or selected courses listed for the Bachelor degree of Engineering (Aerospace).

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.

4.4 Academic program

A student may proceed to the Honours degree in one of the following courses, provided that the student has obtained, before enrolment, the approval of the Head of the School/s concerned:

AGRIC 4001A/B Honours Agricultural Science	24
ANIML SC 4004A/B Honours Animal Science	24
BIOCHEM 4000A/B Honours Biochemistry	24
CHEM 4000A/B Honours Chemistry	24
ENV BIOL 4000A/B Honours Environmental Biology	24
GENETICS 4000A/B Honours Genetics	24
GEOLOGY 4000A/B Honours Geology	24
GEOLOGY 4001A/B Honours Geophysics	24
GEOLOGY 4002A/B Honours Environmental Geoscience	24
HORTICUL 4003A/B Honours in Horticulture	24
MICRO 4000A/B Honours Microbiology and Immunology	24
OENOLOGY 4003A/B Honours Wine Science	24
PETROL 4000A/B Honours Petroleum Geology and Geophysics	24
PHYSICS 4000A/B Honours Physics	24
PHYSICS 4001A/B Honours Mathematical Physics	24
PLANT SC 4012A/B Honours Plant Science	24
SOIL&WAT 4001A/B Honours Soil & Land Systems	24
VITICULT 4006WT Honours Viticulture	24

Students who have been granted permission to study an honours program supervised by two disciplines will be advised of the appropriate course title and code at the time of enrolment.

4.5 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.

5 Special circumstances

When in the opinion of the relevant 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.

Bachelor of Science (High Performance Computational Physics)(Honours)

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

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

1 Duration of program

The program of study for the degree shall extend over four years of full-time study or the part-time equivalent.

2 Qualification requirements

- 2.1 To qualify for the degree a candidate shall pass courses, listed in 2.2 below, to the value of 96 units, which satisfy the following requirements:
- a candidate shall present passes in courses to the value of 24 units at each of Level I, II, III and IV
 - 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
 - a candidate may complete a major in a discipline as set out in Academic Program Rule 4.4 of the degree of Bachelor of Science.

2.2 Academic program

2.2.1 Level I

Level I courses, which shall include:

- passes in core courses
Semester 1
COMP SCI1101 Introduction to
Programming.....3
MATHS 1011 Mathematics IA.....3
PHYSICS 1100 Physics IA.....3
Semester 2
COMP SCI 1102 Object Orientated
Programming.....3
MATHS 1012 Mathematics IB.....3
PHYSICS 1200 Physics IB.....3
- passes in additional Level I courses to the value of 6 units chosen from:
Semester 1
COMP SCI 1012 Scientific Computing I.....3
CHEM 1100 Chemistry IA.....3
ELEC ENG 1009 Electrical &
Electronic Engineering IA.....3
Semester 2
CHEM 1200 Chemistry IB.....3

STATS 1005 Statistical Analysis and
Modelling I.....3

or

courses 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.

2.2.2 Level II

Level II courses, which shall include:

- passes in core courses
Semester 1
MATHS 2101 Multivariable and
Complex Calculus.....3
MATHS 2102 Differential Equations.....3
PHYSICS 2510 Physics IIA.....3
Semester 2
MATHS 2104 Numerical Methods.....3
PHYSICS 2532 Classical Physics II.....3
PHYSICS 2534 Electromagnetism II.....3
 - passes in additional Level II courses to the value of 6 units chosen from:
Semester 1
COMP SCI 2000 Computer Systems.....3
MATHS 2103 Probability and Statistics.....3
Semester 2
COMP SCI 2005 Systems
Programming in C and C++.....3
MATHS 2100 Real Analysis.....3
PHYSICS 2520 Physics IIB.....3
- or
- courses selected in consultation with the Program Coordinator and in accordance with Academic Program Rules 4.5.3 and 4.5.4 for the degree of Bachelor of Science in the disciplines of Applied Mathematics, Computer Science, Physics and Pure Mathematics.

2.2.3 Level III

Level III courses, which shall include:

- passes in core courses
Semester 1

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

1 Duration of program

The program for the degree shall extend over four years of full-time study or the part-time equivalent.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in special cases and on grounds approved by the Faculty.

Note: Partial or full status for some Level I courses may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- a status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- b the candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules.
- c a candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 following, which have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, and Pass.

- 3.3 a A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- b A candidate who fails to obtain a Pass or higher grade in a course and who desires to take the course again shall, unless exempted wholly or partially there from by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- c A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

- 4.1 To qualify for the degree a candidate shall pass courses, listed in 4.2 below, to the value of 96 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 shall present passes in courses to the value of 24 units at Level IV in accordance with the rules 4.2.4 Bachelor of Viticulture and Oenology) or 4.2.5 of Bachelor of Viticulture and Oenology (Hons).

4.2 Academic program

4.2.1 Level I

Passes in Level I courses, which shall include:

- Semester 1
- BIOLOGY 1101 Biology I: Molecules, Genes and Cells.....3
- OENOLOGY 1018NW Foundations of Wine Science I.....3
- CHEM 1100 Chemistry IA.....3
- or
- CHEM 1101 Foundations of Chemistry IA.....3
- PHYSICS 1101 Physics for the Life and Earth Sciences IA.....3
- or
- PHYSICS 1008 Physical Aspects of Nature I.....3
- Semester 2

- PHYSICS 3006 Advanced Dynamics and Relativity III3
- PHYSICS 3542 Physics III.....6
- Semester 2
- PHYSICS 3534 Computational Physics III3
- PHYSICS 3544 Quantum Mechanics III.....3
- ii passes in additional Level III course to the value of 9 units chosen from:
 - Semester 1
 - APP MTH 3000 Computational Mathematics3
 - PHYSICS 3532 Atmospheric and Astrophysics III.....3
 - Semester 2
 - PHYSICS 3002 Experimental Physics III3
 - PHYSICS 3540 Optics and Photonics III.....3
 - APP MTH 3002 Fluid Mechanics III3
 - PURE MTH 3012 Fields & Geometry III3
 - PURE MTH 3019 Complex Analysis III3
 - or
 - courses 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 in the disciplines of Applied Mathematics, Computer Science, Physics and Pure Mathematics.

2.2.4 Level IV

An acceptable standard, in accordance with the Academic Program Rule 4.6 for the Bachelor of Science (Honours) for the Honours degrees, in

PHYSICS 4000A/B Honours Physics24

or

PHYSICS 4001A/B Honours Mathematical Physics24

including some Level IV content selected in consultation with the Program Coordinator from COMP SCI 4999A/B Honours Computer Science.

2.3 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.

2.4 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.

3 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.

BIOLOGY 1202 Biology I: Organisms	3
SOIL&WAT 1000WT Soils and Landscapes I	3
STATS 1004 Statistical Practice I (Life Sciences)	3
CHEM 1200 Chemistry IB	3
or	
CHEM 1201 Foundations of Chemistry IB	3

4.2.2 Level II

Passes in Level II courses, which shall include:

Semester 1	
AGRIC 2500WT Animal & Plant Biochemistry II	3
PLANT SC 2510WT Foundations of Plant Science	3
OENOLOGY 2501WT Microbiology for Viticulture and Oenology II	3
SOIL&WAT 2500WT Soil and Water Resources II	3
Semester 2	
ANIML SC 2501WT Genes & Inheritance II	3
OENOLOGY 2503WT Introductory Winemaking II	3
OENOLOGY 2502WT Sensory Studies II	3
VITICULT 2500WT Viticultural Science II	3

4.2.3 Level III

Passes in Level III courses, which shall include:

Semester 1	
OENOLOGY 3007WT Stabilisation and Clarification III	3
PLANT SC 3510WT Plant Health III	3
OENOLOGY 3047WT Winemaking at Vintage III	3
VITICULT 3021WT Viticultural Science III	3
Semester 2	
OENOLOGY 3037WT Distillation, Fortified & Sparkling Winemaking III	3
VITICULT 3044WT Viticultural Methods & Procedures III	3
VITICULT 3501WT Engineering for Viticulture and Oenology III	3
OENOLOGY 3046WT Fermentation Technology III	3

4.2.4 Level IV for Bachelors Stream

i Passes in Level III courses, which shall include:

Semester 1	
OENOLOGY 3500WT Industry Experience (Viticulture & Oenology) III	3
OENOLOGY 3016WT Cellar & Winery Waste Management	3

Semester 2	
OENOLOGY 3520WT Advances in Wine Science III	3
OENOLOGY 3003WT Wine Packaging and Quality Management III	3

ii Passes in additional courses to the value of 12 units chosen from:

Semester 1	
VITICULT 3005WT Grape Industry Practice, Policy & Communication III	3
PLANT SC 3500 Biotechnology in the Food and Wine Industries III	3
SOIL&WAT 3017WT Soil & Water: Management & Conservation III	3
SOIL&WAT 3016WT Soil Ecology & Nutrient Cycling III	3
PLANT SC 3030AEX/BEX Integrated Weed Management III	3
PLANT SC 3130WT Plant Pathology III	3
WINEMKTG 3505WT/EX Wine & Food Tourism & Festivals III	3
WINEMKTG 2506WT/EX Wine and Society II	3
Semester 2	
PLANT SC 3505WT Soil and Plant Nutrition III	3
ENV BIOL 3009 Ecophysiology of Plants III	3
AGRIBUS 3017WT Business Management for Applied Sciences III	3
PLANT SC 3009WT Plant Molecular Biology III	6
Agronomy	3
Horticulture	3
Winter	
SOIL&WAT 3020WT GIS for Agriculture & Natural Resource Management	3

4.2.5 Level IV for Bachelor of Viticulture and Oenology (Honours)

To be eligible to be admitted to the Honours degree program, a candidate shall complete Levels I, II and III as set out in 4.2.1, 4.2.2 and 4.2.3 to a standard that is acceptable to the Faculty for the purpose of admission to the Honours degree. A candidate who wishes to proceed to the Honours degree must obtain the approval of the Head of School.

The work of the Honours program shall normally be completed in the final year of study. The Faculty may permit a candidate to present the work over a

period of not more than two years on such conditions as it may determine.

A candidate who satisfies the requirements for Honours shall be awarded the Honours degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class	80 - 100
2A	Second Class div A	70 - 79
2B	Second Class div B	60 - 69
3	Third Class	50 - 59
NAH	Not awarded	0 - 49

Passes in Level III courses, which shall include:

Semester 1	
OENOLOGY 3500WT Industry Experience (Viticulture & Oenology) III	3
OENOLOGY 3016WT Cellar & Winery Waste Management	3
Honours in Viticulture and Oenology A	6
Semester 2	
OENOLOGY 3520WT Advances in Wine Science	3
OENOLOGY 3003WT Wine Packaging & Quality Management III	3
Honours in Viticulture and Oenology B	6

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

1 Duration of program

The program of study for the diploma, which is only offered externally, shall extend over four years part-time study.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in exceptional cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their diploma may, on written application to the Faculty, be granted status towards such specific requirements as the Faculty shall determine, subject to the following conditions:

- Status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- The candidate shall present a range of courses that fulfil the requirements of the relevant Academic Program Rules.
- A candidate shall complete a minimum of 24 units towards the award, as defined in 4.2 following, which have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

- A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- A candidate who fails to obtain a Pass or higher grade in a course and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 4.2 following, to the value of 48 units.

4.2 Academic program

For the award of the Diploma in Wine Marketing a student shall complete all courses listed in the program of study for Level 1 and Level 2 of the Bachelor of Wine Marketing as specified under Academic Program Rule 4.2 for that program.

4.3 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.

4.4 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.

5 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.

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

1 Duration of program

The program for the degree shall extend over three years of full-time study or the part-time equivalent.

2 Admission

2.1 Status, exemption and credit transfer

2.1.1 Exemption from any part of the program on the first occasion on which a candidate takes a course will be granted only in exceptional cases and on grounds approved by the Faculty.

Note: Partial or full status may be granted on account of International Baccalaureate upon application to the Faculty.

2.1.2 Candidates who have previously passed courses offered in other programs at the University of Adelaide or other recognised tertiary institutions and who wish to count such courses towards their degree may, on written application to the Faculty, be granted status towards such specific degree requirements as the Faculty shall determine, subject to the following conditions:

- Status will normally only be considered for courses passed within the previous ten years. Status may be granted on a course for course basis or on the basis of course for group of courses. Status will be granted only for courses that meet the academic requirements of the award towards which credit is sought.
- The candidate shall present a range of courses which fulfils the requirements of the relevant Academic Program Rules.
- A candidate shall complete a minimum of 24 units towards the award, as defined in 5.2 below which have not been presented for any other degree.

3 Assessment and examinations

3.1 In determining a candidate's final result in a course the assessors may take into account oral, written, practical or examination work, provided that the candidate has been given notice at the beginning of the course of the way in which the work will be taken into account and of its relative importance in the final result.

3.2 There shall be four classifications of pass in any course for the degrees, as follows: Pass with High Distinction, Pass with Distinction, Pass with Credit, Pass.

- A candidate who obtains a Pass or higher grade in a course cannot repeat the course.
- A candidate who fails to obtain a Pass or higher grade in a course or who obtains a Conceded Pass and who desires to take the course again shall, unless exempted wholly or partially therefrom by the Head of School concerned or their delegate, do written and laboratory or other work in that course to the satisfaction of the teaching staff concerned.
- A candidate who has twice failed to obtain a Pass or higher in any course shall not enrol for the course again, or for any other course which in the opinion of the Faculty contains a substantial amount of the same material, except by permission of the Faculty and under such conditions as the Faculty may prescribe.

4 Qualification requirements

4.1 To qualify for the degree a candidate shall pass courses, listed in 4.2 following, to the value of 72 units.

4.2 Academic program

4.2.1 Level 1

Passes in Level 1 courses:

Semester 1

ECON 1004 Principles of Microeconomics I3

or

WINEMKTG 1026EX Microeconomic Principles3

ECON 1008 Business and Economic Statistics I3

or

WINEMKTG 1015EX Data Analysis for Food and Wine Business I3

OENOLOGY 1000NW/1000EX Introductory Grape and Wine Knowledge3

WINEMKTG 1013WT/1013EX Wine and Food Marketing Principles I3

Semester 2

ACCTING 1002 Accounting for Decision Makers3

or

WINEMKTG 1008EX Introduction to Managerial and Financial Accounting I3

COMMLAW 1004 Commercial Law I (S).....	3
<i>or</i>	
WINEMKTG 1003EX Legal Issues in Wine Marketing I.....	3
ECON 1000 Principles of Macroeconomics I.....	3
<i>or</i>	
WINEMKTG 1063EX Macroeconomic Essentials for Wine and Food Business I.....	3
OENOLOGY 1001WT/1001EX Vineyard and Winery Operations I.....	3

4.2.2 Level II

Level II courses, which shall include:

- i passes in core courses:
 - Semester 1
 - AGRIBUS 2500EX Introduction to
Business Management II.....
 - or*
 - WINEMKTG 2500WT Applied Management
Science II.....
 - OENOLOGY 2500NW/2500EX Vineyard
and Winery Operations II.....
 - Semester 2
 - WINEMKTG 2501WT/2501EX Applied
Marketing Research II.....
 - WINEMKTG 2503WT/2503EX International
Marketing of Wine & Agricultural
Products II.....
- ii passes in additional Level II courses to the
value of 12 units selected in consultation with
the Program Coordinator.

4.2.3 Level III

Level III courses, which shall include:

- i passes in core courses
 - Semester 1
 - WINEMKTG 3500WT/3500EX Global Wine
Market III.....
 - WINEMKTG 3505WT/3505EX Wine and
Food Tourism and Festivals III.....
 - Semester 2
 - WINEMKTG 3501WT/3501EX Winery
Business Management III.....
 - WINEMKTG 3507WT/3507EX Wine Retail
and Distribution Management III.....
- ii passes in additional courses to the value of 9
units chosen from:
 - Semester 1

WINEMKTG 2506WT/2506EX Wine and Society II.....	3
WINEMKTG 2504WT/2504EX International Wine Law II.....	3
WINEMKTG 3503WT/3503EX Food Marketing III.....	3
WINEMKTG 3504WT/3504EX Internet Marketing and E-Commerce III.....	3
Semester 2	
AGRIBUS 3010WT International Agribusiness Environment III.....	3
WINEMKTG 2505EX Strategic Marketing Management II.....	3
WINEMKTG 3506WT/3506EX Database Marketing for Food and Wine Business III.....	3

It is recommended that students wishing to
specialise in marketing include the following
courses amongst their electives:

Semester 1	
WINEMKTG 3502WT/3502EX Advertising and Promotion III.....	3
Semester 2	
MARKETNG 2501 Consumer Behaviour II.....	3
<i>or</i>	
WINEMKTG 2502EX Consumer Behavioural Analysis II.....	3

It is recommended that students wishing to
specialise in finance, economics and trade
include the following courses amongst their
electives:

Semester 1	
ECON 2506 Intermediate Macroeconomics II.....	3
ECON 3506 International Trade III.....	3
Semester 2	
ECON 2507 Intermediate Microeconomics II.....	3
ECON 2500 International Trade & Investment Policy II.....	3

or additional courses offered by the Faculty
of Sciences or any courses in the Bachelor
of Commerce or Bachelor of Economics for
which the student is eligible to enrol.

4.3 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.

4.4 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.

5 Special circumstances

When in the opinion of the Faculty special circum-
stances 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.

Bachelor of Wine Marketing (Honours)

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

1 Duration of program

- 1.1 The program of study for the degree shall extend over one year of full-time study, or over two years of consecutive part-time study under conditions listed under Academic Program Rule 1.2.
- 1.2 In exceptional circumstances, and on application, the Bachelor of Wine Marketing (Honours) program may be undertaken over two years of consecutive part-time study. The grounds for granting permission to undertake Honours over two years are limited to the following:
 - i students with care-giver responsibilities
 - ii students in greater than or equal to half-time employment
 - iii students with a significant sickness or disability
 - iv students enrolled for part of the Honours program in an overseas institution
 - v compassionate reasons.

Permission to undertake the program over two years should be sought at the time of application, to the Manager, Student Services, after admission but before 31 March (or 31 August for students commencing mid-year).

2 Admission

- 2.1 An applicant, for the admission to the program of the Bachelor of Wine Marketing (Honours) shall have qualified for a Bachelor degree of the Faculty of Sciences, or some other degree deemed by the Faculty to be appropriate preparation, and have completed a major sequence relevant to the appropriate Honours degree, or equivalent acceptable to the School.
- 2.2 A student may not enrol a second time for Honours in the same degree and School if the student:
 - i has presented for examination in that School but has failed to obtain Honours
 - or
 - ii withdraws from the program, unless the Faculty under Rule 3.3 permits the student to re-enrol.
- 2.3 An applicant who has obtained an Honours degree in a course or field of study in another School or equivalent may not obtain the Honours degree of Bachelor of Wine Marketing in a corresponding course, field of study, or School of the Faculty of Sciences.

3 Assessment and examinations

- 3.1 A candidate who satisfies the requirements for Honours shall be awarded the degree, but the Faculty shall decide within which of the following classes and divisions the degree shall be awarded:

1	First Class	80-100
2A	Second Class div A	70-79
2B	Second Class div B	60-69
3	Third Class	50-59
NAH	Not awarded	0-49

3.2 Attendance requirements

A candidate shall not be eligible to present for assessment, by examination, dissertation or otherwise, unless he or she has regularly attended the prescribed classes and has done written and laboratory or other practical work, where required, to the satisfaction of the School/s concerned. A candidate is required to meet regularly with his or her supervisor during the preparation and writing of the dissertation component of the program. Pursuant to this clause, a candidate who is not eligible to present work for assessment will receive a final result of NAH (Not Awarded), unless he or she withdraws from the program before the required date.

3.3 Academic progress

A student who is unable to complete the program for the Honours degree within the time allowed, or whose work is unsatisfactory at any stage of the program, or who withdraws from the program, shall be reported to the Faculty which may permit the student to re-enrol for the Honours degree under such conditions (if any) as it may determine and to ensure that the student does not in effect spread the work of Honours over two years.

4 Qualification requirements

- 4.1 A student may proceed to the Honours degree in one of the courses listed in Rule 4.4 below, comprising coursework and a dissertation
- 4.2 The program of study and dissertation topic for the Honours year for students must be approved by the Head of the School, or their assigned delegate, before enrolment.
- 4.3 A student may not proceed to the Honours degree in a course that is not listed in Rule 4.4 below.

4.4 Academic program

A student may proceed to the Honours degree in the following course:

WINEMKTG 4007A/B Honours
Wine Marketing24

4.5 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.

5 Special circumstances

When in the opinion of the relevant 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.

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

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

1 General

Students may enrol directly in a program of study leading, after four years of full-time study (or part-time equivalent thereof), to the award of both the degree of Bachelor of Arts and the degree of Bachelor of Science.

2 Qualification requirements

2.1 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.

2.2 Science Component

To qualify for the award of the degree of B.Sc. students must pass courses listed in Academic Program Rule 4.5 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum unit value of 48, as follows:

- a Level I courses to the value of not less than 12 units
- b Level II courses to the value of not less than 12 units - being prerequisites for courses at Level III
- c Level III courses to the value of not less than 24 units
- d courses comprising a major in a science discipline, as defined in the Academic Program Rule 4.4 for the degree of B.Sc. in the Faculty of Sciences
- e a student must concurrently qualify for both awards.

Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to enrolment in a program for the degree of Bachelor of Science in the Faculty of Sciences where credit of courses completed will be considered on a case by case basis.

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

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

1 General

Students may enrol directly in a program of study leading, after five years of full-time study (or part-time equivalent hereof), to the award of both the degree of Bachelor of Laws and the degree of Bachelor of Science.

2 Qualification requirements

2.1 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.

2.2 Science Component

To qualify for the award of the degree of B.Sc. students must pass courses listed in Academic Program Rule 4.5 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum unit value of 48, as follows:

- a Level I courses to the value of not less than 12 units
- b Level II courses to the value of not less than 12 units - including prerequisites (where required) for courses at Level III
- c Level III courses to the value of not less than 24 units
- d courses comprising a major in a science discipline, as defined in the Academic Program Rule 4.4 for the degree of B.Sc. in the Faculty of Sciences
- e a student must concurrently qualify for both awards.

Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to enrolment in a program for the degree of Bachelor of Science in the Faculty of Sciences where credit of courses completed will be considered on a case by case basis.

Bachelor of Teaching and Bachelor of Science

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

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

1 General

Students may enrol directly in a program of study leading, after four years of full-time study (or part-time equivalent hereof), to the award of both the degree of Bachelor of Teaching and the degree of Bachelor of Science.

enrolment in a program for the degree of Bachelor of Science in the Faculty of Sciences where credit of courses completed will be considered on a case by case basis.

2 Qualification requirements

2.1 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.

2.2 Science Component

To qualify for the award of the degree of B.Sc. students must pass courses listed in Academic Program Rule 4.5 of the Rules for the degree of Bachelor of Science in the Faculty of Sciences to a minimum unit value of 48, as follows:

- a Level I courses to the value of not less than 18 units
- b Level II courses to the value of not less than 18 units - including prerequisites (where required) for courses at Level III
- c Level III courses to the value of not less than 21 units
- d courses comprising a major in a science discipline, as defined in the Academic Program Rule 4.4 for the degree of B.Sc. in the Faculty of Sciences
- e a student must concurrently qualify for both awards.

For all Science courses, 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.

Students who commence this program but who subsequently decide that they do not wish to proceed with both areas of study may transfer to