

## Bachelor of Science/ Bachelor of Business

Course code: 4500

Course coordinator: Dr Kevin de Berg

The double degree in science and business provides opportunity for the combination of two awards in one program of studies. The course is designed to increase the employability of graduates by offering them the flexibility to become multi-skilled and gain broadened perspectives in their studies. Students who are unsure about their careers are provided with wider options. The course prepares a student to pursue a career which interfaces with either science, business, or a combination of the two. The double degree is structured to enable a student to obtain a double award in a shorter time than if the programs were studied separately. The degree is delivered within the context of Christian values and is designed to enhance the student's critical thinking and problem-solving abilities and his/her knowledge of science and business in the contemporary world.

### Duration

Four years full-time or equivalent part-time

### Credit points

192 credit points

### Mode of delivery

On campus

### Abbreviation of course title

BSc/BBus

### Accreditation

The degree is accredited by the NSW Department of Education and Training.

### Professional Society Recognition

Students wishing to gain CPA Australia recognition from the BSc/BBus (Accounting) program will need to complete the following additional subjects:

LA240 Corporate Law  
MT145 Organisations in a Business Context

It must also be noted that students have a choice between AC334.2 Australian Tax Law and Practice and AC342.2 Auditing and Assurance Services, and that *CPA Australia* states that if either of these subjects is not taken in the degree course they will be required to be taken as part of the preparation for CPA status. Completion of the recognition requirements for either the CPA or ICAA may involve

additional study beyond the minimum requirements for the degree.

Students should consult with the Dean of the Faculty of Business and Information Technology regarding the necessary prescribed BBus subject selections.

### Entry requirements

The general entry requirements for Avondale degree courses are stated in the Academic Policies section of the Handbook. These requirements apply to all the majors in the BSc/BBus with the following additional requirements for specific majors/minors:

#### Biological Science

- 1 HSC (or equivalent) Chemistry, *or*
- 2 An HSC (or equivalent) Science subject and Chemistry Bridging Course, *or*
- 3 In the absence of HSC (or equivalent) Biology, a UAI of 70 and Chemistry Bridging Course or at least Year 11 Chemistry, *or*
- 4 Recommendation of the Faculty of Science and Mathematics.
- 5 HSC (or equivalent) Biology is recommended.

#### Chemistry

- 1 HSC (or equivalent) Chemistry, *or* recommendation of the Faculty of Science and Mathematics, *and*
- 2 HSC (or equivalent) Mathematics, *or* recommendation of the Faculty of Science and Mathematics.

#### Food and Nutrition

- 1 HSC (or equivalent) Chemistry, *or*
- 2 An HSC (or equivalent) Science subject and Chemistry Bridging Course, *or*
- 3 In the absence of HSC (or equivalent) Biology, a UAI of 70 and Chemistry Bridging Course or at least Year 11 Chemistry, *or*
- 4 Recommendation of the Faculty of Science and Mathematics.
- 5 HSC (or equivalent) Biology is recommended.

#### Information Technology

HSC (or equivalent) Mathematics is recommended.

#### Mathematics

Recent HSC (or equivalent) Mathematics Extension 1, *or* recommendation of the Faculty of Science and Mathematics.

#### Physics

- 1 HSC (or equivalent) Physics, *or* recommendation of the Faculty of Science and Mathematics *and*
- 2 HSC (or equivalent) Mathematics Extension 1, *or* recommendation of the Faculty of Science and Mathematics.

### Course structure

The BSc/BBus double degree consists of 32 x 6-credit subjects (192 credit points) over eight semesters. The course is comprised of Christian Studies subjects, a BSc *major*, a BSc *minor*, a BBus *major* and *business-core* subjects

The BSc *major* is an approved sequence in a specific Science discipline or multi-discipline area comprised of at least eight subjects (48 credit points) including not more than two subjects (12 credit points) at 100-level, and at least three subjects (18 credit points) at 300-level.

The BSc *minor* is an approved sequence in another specific Science discipline or multi-discipline area comprised of at least four subjects (24 credit points) including not more than two subjects (12 credit points) at 100-level, and at least two subjects (12 credit points) at 200-level.

A BBus *major* is a prescribed sequence in a specific business discipline of at least eight subjects (48 credit points).

The *business-core* subjects are a prescribed sequence of seven subjects (42 credit points) of business subjects common to all strands of the degree.

Majors, specialisations, and minors must be selected from different disciplines.

*Electives* are undergraduate subjects which a student may freely choose from most faculties (except professional subjects from the teaching, nursing and theology degrees, coded CM, CP, CZ, NU, PP, SP) subject to timetable and prerequisite constraints. Alternatively, electives may be used to augment a major or minor by taking additional subjects in the discipline or by taking allied subjects to broaden the major or minor. Students anticipating postgraduate study in the area of their specialisation/major are strongly advised to take electives in that discipline. Students should seek academic advice from their course adviser.

All subjects are worth 6 credit points (unless otherwise specified) with a notional semester workload of 150 hours, averaging 10–12 hours per week (including contact hours).

### Christian Studies subjects

These subjects address the religious, ethical and social value emphases of Avondale's philosophy of education derived from its Seventh-day Adventist faith tradition.

In the BSc/BBus degree the sequence is:

CR143	Christian Studies I
CR243	Christian Studies II* #
SC343	Christian Studies III—Scientific Perspectives in the Modern World

or

MT343 Christian Studies III—Professional Ethics

\*SDA students may select the following alternative to CR243:

CY165	SDA History and Ministry of Ellen White
-------	---

#The following alternatives to CR243 are available to students of other faiths:

NT160	Gospels A
NT161	Gospels B
EN264	Literature and Religion ( <i>odd years</i> )
TH362	Comparative Religions

All students may substitute an approved subject from the Faculty of Theology for either CR143 or CR243.

### BSc majors

Biological Science—Environmental Strand  
 Biological Science—Biomedical Strand  
 Chemistry  
 Food and Nutrition (*requires a Biological Science minor and normally a BBus Marketing major—see Structure*)  
 Geography  
 Information Technology  
 Mathematics  
 Physics

### BSc minors

Biological Chemistry  
 Biological Science—Biomedical Strand  
 Chemistry  
 Food and Nutrition (*requires a Biological Science minor—see Structure*)  
 Geography  
 Information Technology (*cannot be combined with a BBus information Technology major*)  
 Mathematics  
 Physics

### BBus major

Accounting  
 Information Technology (*cannot be combined with a BSc Information Technology major or minor*)  
 Management  
 Marketing

### Summary of minimum requirements in BSc/BBus degree

Component of course	Credit points
Christian Studies subjects	18
BSc Major	48
BSc Minor	24
BSc Electives	12
BBus Major	48
BBus Business-core	42
TOTALS	192

## BSc major/minor sequences

See under Bachelor of Science degrees section

## BBus major and business-core subject sequences

### Accounting Major Strand

#### Business-core subjects

AC160.1	Introduction to Accounting A
CO164.1	Introduction to Information Management
EC122.2	Introduction to Economics
FN200.1	Business Finance
LA145.1	Business Law
MA163.2	Business Statistics
MT216.1	Management Information Systems

#### Accounting

AC162.2	Introduction to Accounting B
AC222.1	Accounting History and Theory
AC262.2	Management Accounting A
AC260.2	Corporate Accounting
AC263.2	Management Accounting B
AC315.1	Contemporary Accounting Issues
AC316.1	Business Systems Applications
AC334.2	Auditing and Assurance Services
<i>or</i>	
AC342.1	Australian Tax Law and Practice

#### Information Technology

CO168.2	Introduction to Programming
CO290.2	Emerging Trends in Information Technology
CO293.1	Systems Analysis and Design I
CO296.2	Operating Systems and Data Communication
CO298.2	Advanced Programming
CO375.2	Web Application Design
CO393.2	Systems Analysis and Design II
<i>or</i>	
CO394.1	Database Management and Design
CO396.1	Information Technology Project

#### Management

MK281.2	Marketing Communication
MT251.1	Management Research
MT261.2	Organisational Behaviour
MT270.1	Human Resource Management
MT280.2	Workplace Relations
MT345.1	New Business Ventures and the Entrepreneur
MT352.2	Management Project
MT365.2	Strategic Responses for Managers
<i>or</i>	
MT385.2	Managing Diversity

#### Marketing

MK260.2	Consumer Behaviour
MK283.1	Services Marketing
MK281.2	Marketing Communication
MK285.1	Marketing Research
MT261.2	Organisational Behaviour
MK360.1	Current Issues and Electronic Marketing
MK362.2	Marketing Project
MK365.2	Strategic Responses for Marketing
<i>or</i>	
MK385.2	Managing Marketing Diversity

## Degree structures

The standard structures for the BSc/BBus degree and the variant in Food and Nutrition (BSc strand ) with Marketing (BBus strand) are provided on the following pages. Limited flexibility may be possible in the sequence of electives, Christian Studies subjects and sometimes in the major and minor sequences. See the course coordinator for details.

**Bachelor of Science/Bachelor of Business**

## Standard Structure

Sem				
1	BSc Major 100	BSc Minor or Prerequisite 100	CR146 Christian Studies I	Business core AC160 Introduction to Accounting A
2	BSc Major 100	Business core EC122 Introduction to Economics	Business core CO164 Introduction to Information Management Skills	BBus Major
3	BSc Major 200	BSc Major 200/300 <i>or</i> BSc Minor 100	MT343 Christian Studies III— Professional Ethics	BBus Major
4	BSc Major 200/300	BSc Minor 100 <i>or</i> BSc Major 200/300	Business core MA163 Business Statistics	Business core LA145 Business Law
5	BSc Major 200/300	BSc Major 200/300	Business core MT216 Management Information Systems	BBus Major
6	BSc Major 200/300	BSc Minor 200	BBus Major	BBus Major
7	BSc Elective or BSc Minor	CR243 Christian Studies II	BBus Major	Business core FN200 Business Finance
8	BSc Elective	BSc Minor 200	BBus Major	BBus Major

## BSc (Food and Nutrition Major/Biological Science Minor)/ BBus (Marketing Major)

This major requires some subjects to be studied at The University of Newcastle (Central Coast Campus)

Sem				
1	BSc Prerequisite CH163 General Chemistry	BSc Minor BI160 Biology I	CR143 Christian Studies I	Business core AC160 Introduction to Accounting A
2	BSc Major HP161 Food Nutrition and Health	BSc Minor BI164 Comparative Functional Biology	Business core CO164 Introduction to Information Management Skills	BBus Major MK260 Consumer Behaviour
3	BSc Major DT261 Food Production Systems	BSc Minor BI264 General Microbiology	BSc Minor BI261 Biochemistry	Required MT145 Organisations in a Business Context
4	BSc Major DT263 Food Science	Business core EC122 Introduction to Economics	Business core MA163 Business Statistics	Business core LA145 Business Law
5	BSc Major FSHN3010 Food Processing and Quality Management*	BSc Major HP262 Nutrition Development and Performance	Business core MT216 Management Information Systems	BBus Major MK285 Marketing Research
6	BSc Major HP363 Health Promotion or BI370 Food Microbiology	MT343 Christian Studies III— Professional Ethics	BBus Major MT261 Organisational Behaviour	BBus Major MK281 Marketing Communication
7	BBus Major MK283 Services Marketing	CR243 Christian Studies II	BBus Major MK360 Current Issues and Electronic Marketing	Business core FN200 Business Finance
8	FSHN3210 Food Product Development*	BSc Minor 200	BBus Major MK385 Managing Marketing Diversity	BBus Major MK365 Strategic Responses to Marketing

\* offered at the University of Newcastle—Central Coast Campus. Students should consult with the Dean of the Faculty of Science and Mathematics in relation to any changes in the subjects offered by The University of Newcastle.

A student completing Semesters 7 and 8 in an odd year may choose DT364 Design Project (Food Product Design) in Semester 7 instead of FSHN3210 Food Product Development in Semester 8. In this case CR243 Christian Studies II would need to be taken in Semester 8 instead of Semester 7.