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 and a half years full-time or equivalent part-time

Credit points
216 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 unit:
LAWS26000 Corporate Law

It must also be noted that students have a choice between ACCT33400 Australian Tax Law and Practice and ACCT34200 Auditing and Assurance Services, and that *CPA Australia* states that if either of these units 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 unit selections.

Entry requirements
The general entry requirements for Avondale College 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 unit 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 unit 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 thirty-six 6-credit units (216 credit points) over nine semesters. The course is comprised of Christian Studies units, two BSc *majors,* or a BSc *major*, and two BSc *minors*, BSc electives and/or required subjects, a BBus *major* and *business-core* units

The BSc *major* is an approved sequence in a specific Science discipline or multi-discipline area comprised of at least eight units (48 credit points) including not more than two units (12 credit points) at 100-level, and at least three units (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 units (24 credit points) including not more than two units (12 credit points) at 100-level, and at least two units (12 credit points) at 200-level.

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

The *business-core* units are a prescribed sequence of eight units (48 credit points) of business units common to all strands of the degree.

Majors and minors must be selected from different disciplines.

Electives are undergraduate units which a student may freely choose from most faculties (except professional units from the teaching, nursing and theology degrees, coded CMIN, CHMIN, EDCP, EDCZ, NURS, EDPP, EDSP) subject to timetable and prerequisite constraints. Alternatively, electives may be used to augment a major or minor by taking additional units in the discipline or by taking allied units 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.

Required units are the prerequisites/corequisites for a major or minor that are not part of that major or minor sequence of units. They also include units which are part of a special sequence but not necessarily prerequisites/corequisites. The table below shows the required units for major/minor study in the listed discipline areas.

Discipline	*Required units*
Biological Chemistry	BIOL16000 Biology 1; BIOL16100 Comparative Functional Biology; BIOL26100 Biochemistry
Biological Science—Environmental	MATH16200 Introduction to Statistics
Biological Science—Biomedical	CHEM16000 Chemistry 1A *or* CHEM16300 General Chemistry *or* CHEM16100 Chemistry 1B
Chemistry	MATH16000 Mathematics 1A *or* MATH16400 General Mathematics
Food and Nutrition/ Biological Science	CHEM16000 Chemistry 1A *or* CHEM16300 General Chemistry
Geography	BIOL26200 Ecology for GEOP33000 Biogeograpy if GEOP21000 Physical Geography A and GEOP22000 Physical Geography B not studied
Information Technology	ICTM16400 Introduction to Information Management
Mathematics	Nil
Physics	MATH16000 Mathematics 1A MATH16400 Mathematics IB MATH26000 Calculus II

All units 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 units

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

In the BSc/BBus degree the sequence is:

CSTD14300 Christian Studies I
CSTD24300 Christian Studies II* #
SCSP34300 Christian Studies III—Scientific Perspectives in the Modern World

or

MNGT34300 Christian Studies III—Professional Ethics

*SDA students may select the following alternative to CSTD24300:
THCH16500 SDA History and Ministry of Ellen White

#The following alternatives to CSTD24300 are available to students of other faiths:

BBNT16000 Gospels A
BBNT17000 Epistles A
ENGL21000 The Bible as Literature
ENGL25000 Literature and Religion *(odd years)*
THWR36200 Comparative Religions

All students may substitute an approved unit from the Faculty of Theology for either CSTD14300 or CSTD24300.

BSc majors

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

BSc minors

Biological Chemistry
Biological Science—Biomedical Strand
Chemistry
Food and Nutrition *(requires a Biological Science minor—see BSc structure for Biological Science Minor)*
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

Mode 1

Component of course	Credit points
Christian Studies units	18
Science major	48
Science minor x 2	48
Science electives/required	6
Business major	48
Business core	48
TOTALS	216

Mode 2

Component of course	Credit points
Christian Studies units	18
Science major 1	48
Science major 2	48
Science electives/required	6
Business major	48
Business core	48
TOTALS	216

BSc major/minor sequences

See under Bachelor of Science degrees section

BBus major and business-core unit sequences

Business-core units

ACCT16300 Introduction to Accounting
ECON12200 Introduction to Economics
FNCE20000 Business Finance
ICTM16400 Introduction to Information Management
INFS21600 Management Information Systems
LAWS14500 Business Law
MATH16300 Business Statistics
MNGT14500 Organisations in a Business Context

Accounting

ACCT16500 Financial Accounting and Reporting
ACCT22600 Business Systems Applications
ACCT26000 Corporate Accounting
ACCT26400 Management Accounting Fundamentals
ACCT26500 Management Decisions and Controls
ACCT31500 Contemporary Accounting Issues
ACCT31700 Accounting Theories
ACCT34200 Australian Tax Law and Practice

Other Accounting units available are:
ACCT28600 Internship in Accounting
ACCT33400 Auditing and Assurance Services
ACCT35200 Accounting Project

Information Technology (Programming stream major)

ICTM16800 Introduction to Programming
ICTM29400 Systems Analysis and Design
ICTM29800 Advanced Programming
ICTM39600 Information Technology Project *or*
ICTM28600 Internship in Information Technology

and at least four of the following (two should be at the 300-level)
ICTM18000 Web Communication
ICTM26900 Computer Infrastructure
ICTM37500 Web Application Design
ICTM28600 Internship in Information Technology *or*
ICTM39600 Information Technology Project
ICTM39700 Project Management

Information Technology (Information Management stream major)

ICTM18000 Web Communication
ICTM16800 Introduction to Programming
ICTM29400 Systems Analysis and Design
ICTM39700 Project Managementt

and at least four of the following (two should be at the 300-level)
ICTM27500 Advanced Applications
ICTM28600 Internship in Information Technology *or*
ICTM39600 Information Technology Project
ICTM29000 Emerging Trends in Information Technology
ICTM39400 Database Management and Design

Management
Required
MNGT26100 Organisational Behaviour
MNGT26500 Strategic Principles for Managers
MNGT27000 Human Resource Management
MNGT38500 Managing Diversity

and any four of the following
BSAD25100 Management Research
MNGT28000 Workplace Relations
MNGT34500 New Business Ventures and the Entrepreneur
MNGT35200 Management Project
MNGT36500 Strategic Responses for Managers
MNGT39100 Managing Organisational Change and Development
MNGT39600 Independent Topic in Management

Marketing
Required
MKTG26000 Consumer Behaviour
MKTG26500 Strategic Principles for Marketers
MKTG28100 Marketing Communication
MKTG38500 Managing Marketing Diversity

and any four of the following
BSAD25100 Marketing Research
MKTG28300 Services Marketing
MKTG36000 Current Issues and Electronic Marketing
MKTG36200 Marketing Project
MKTG36500 Strategic Responses for Marketing
MKTG38200 Business to Business Marketing and Sales
MKTG39600 Independent Topic in Marketing

Degree structures

The standard generic structures for the BSc/BBus degree in Modes 1 and 2 are provided on the following pages. Limited flexibility may be possible in the sequence of electives, Christian Studies units and sometimes in the major and minor sequences. See the course coordinator for details.

Standard Generic Sequence Grid—Mode 1

Sem	Units showing a generic science major, two generic science minors, generic science required or elective, generic business major, Avondale Core (AC) and Business Core (BC)			
1	Science Major	Science Minor I	BC ICTM16400 Introduction to Information Management	BC ACCT16300 Introduction to Accounting
2	Science Major	Science Minor I	AC CSTD14300 Christian Studies I	Business Major
3	Science Major	Science Major	Business Major	BC MNGT14500 Organisations in a Business Context
4	Science Major	AC CSTD24300 Christian Studies II	BC ECON12200 Introduction to Economics	BC LAWS14500 Business Law
5	Science Major	Science Minor 1	BC INFS21600 Management Information Systems	Business Major
6	Science Major	BC MATH16300 Business Statistics	Business Major	Business Major
7	AC* MNGT34300 Professional Ethics	Science Minor 1	Science Minor 2	BC FNCE20000 Business Finance
8	Science Major	Science required/ Elective	Science Minor 2	Business Major
9	Science Minor 2	Science Minor 2	Business Major	Business Major

NOTE: The position of units can change in the grid above depending on the science major and minor selected. All business majors can fit into the above grid but flexibility is available if needed.

*Accounting majors must do MNGT34300 Professional Ethics. Other majors may choose MNGT34300 Professional Ethics or SCSP34300 Scientific Perspectives in the Modern World.

Standard Generic Sequence Grid—Mode 2

Sem	Units showing two generic science majors, generic science required or elective, generic business major, Avondale Core (AC) and Business Core (BC)			
1	Science Major 1	Science Major 2	BC ICTM16400 Introduction to Information Management	BC ACCT16300 Introduction to Accounting
2	Science Major 1	Science Major 2	AC CSTD14300 Christian Studies I	Business Major
3	Science Major 1	Science Major 1	BC MNGT14500 Organisations in a Business Context	Business Major
4	Science Major 1	AC CSTD24300 Christian Studies II	BC ECON12200 Introduction to Economics	BC LAWS14500 Business Law
5	Science Major 1	Science Major 2	BC INFS21600 Management Information Systems	Business Major
6	Science Major 1	BC MATH16300 Business Statistics	Business Major	Business Major
7	AC* MNGT34300 Professional Ethics	Science Major 2	Science Major 2	BC FNCE20000 Business Finance
8	Science Major 1	Science required/ Elective	Science Major 2	Business Major
9	Science Major 2	Science Major 2	Business Major	Business Major

NOTE: The position of units can change in the grid above depending on the science major and minor selected. All business majors can fit into the above grid but flexibility is available if needed.

*Accounting majors must do MNGT34300 Professional Ethics. Other majors may choose MNGT34300 Professional Ethics or SCSP34300 Scientific Perspectives in the Modern World.