

Enrolment Program Structure

Program Code - SC5

Program Name - Bachelor of Science

First Year			
Semester 1	Course Code	Course Name	Course Rules
	SCBIO1001	Principles of Biology	EX: BIOGC1722 & SCCOR1100 & SCBIO1010
	SCCHM1001	Chemistry 1	EX: CHMGC1011 or SCCHE1011
	SCCOR1300	Scientific Practice	EX: ENCOR1015, MATHS1000, MATGC1010
		SCENV1001 OR Elective	
Semester 2			
	SCCOR1200	Scientific Communication	EX: SCCOR1001 & SCIGC101 & SCMED1010
		Major Specialisation	
		Minor specialisation	
		SCENV1002 OR Elective	
Second Year			
Semester 1	Course Code	Course Name	Course Rules
	STATS1000	Statistical Methods	EX: SCIGO1020
		Elective	
		Major Specialisation	
		Minor Specialisation	
Semester 2			
		Elective	
		Elective	
		Major Specialisation	
		Minor Specialisation	

Third Year

Semester 1	Course Code	Course Name	Course Rules
		Elective	
		Elective	
		Major Specialisation	
		Major Specialisation	
Semester 2			
		Elective	
		Elective	
		Major Specialisation	
		Major Specialisation	

Glossary

Semester: designated teaching period.

PR: Pre-requisite, a course/s that must be completed prior to undertaking another course.

CO: Co-requisite, a course/s that must be completed simultaneously, or prior to, undertaking another course.

EX: Exclusion, a course/s that may not be taken.

Additional Information

This program structure applies to students commencing from 2022. Students who commenced prior to 2022 should refer to the continuing enrolments page.

The second and third years of this program consist of the majors, minors and electives selected by the students, please refer to the below list.

Bachelor of Science Major and Minor Sequences

BEHAVIOURAL SCIENCE

Major

BEHAV1001 Human Behaviour in the Modern World

BEHAV1002 Brains and Behaviour

Three of: BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004

BEHAV3003 Health and Behaviour Change

BEHAV3004 Counselling Theory and Practice

CHSUG3001 Critical Practice Approaches

Minor

BEHAV1001 Human Behaviour in the Modern World

BEHAV1002 Brains and Behaviour

Two of: BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004

BIOCHEMISTRY

Major

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

SCBCH2001 Biochemistry

SCBCH2002 Nutrition and Metabolism

SCMOL2001 Biotechnology laboratory techniques or SCCHM2001 Analytical Techniques

Three of: SCMOL3001, SCCHM3001, SCCHM3004, SCMOL3010

Minor

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

Two of: SCBCH2001, SCBCH2002, SCMOL2001, SCVET2001

BIOLOGICAL SCIENCE

Major

SCBIO1001 Principles of biology

SCBIO1020 Systems biology

Three of:

o SCMED2010 Pathophysiology 1 and SCMED3034 Histopathology and Haematology

o SCMOL2010 Mammalian genetics and SCMOL3001 Molecular Cell Biology

o SCMIC2001 General Microbiology and SCMIC3003 Clinical microbiology

o SCBCH2002 Nutrition and Metabolism and SCMED3010 Pharmacology & toxicology

o SCVET2001 Animal Management and Disease and SCVET3001 Case studies in animal mgt

o SCENV2100 Australian Fauna and SCENV2101 Australian flora

Minor

SCBIO1001 Principles of biology

SCBIO1020 Systems biology

One of:

- o SCMED2010 Pathophysiology 1 and SCMED3034 Histopathology and Haematology
- o SCMOL2010 Mammalian genetics and SCMOL3001 Molecular Cell Biology
- o SCMIC2001 General Microbiology and SCMIC 3003 Clinical microbiology
- o SCBCH2002 Nutrition and Metabolism and SCMED3010 Pharmacology & toxicology
- o SCVET2001 Animal Management and Disease and SCVET3001 Case studies in animal mgt
- o SCENV2100 Australian Fauna and SCENV2101 Australian Flora

CHEMISTRY

Major

SCCHM1001 Chemistry 1

SCCHM1002 Chemistry 2

SCBCH2001 Biochemistry

SCCHM2001 Analytical techniques

SCCHM2002 Environmental chemistry

Three of: SCCHM3001, SCCHM3004, SCCHM3003, SCCOR3001

Minor

SCCHM1001 Chemistry 1

SCCHM1002 Chemistry 2

Two of: SCBCH2001, SCCHM2001, SCCHM2002

ECOLOGY

Major

SCBIO1001 Principles of Biology

SCENV1002 Biodiversity Conservation

SCENV2200 Population and Community Ecology

SCENV2202 Wildlife Ecology and Conservation

SCENV3110 Fire Ecology

SCENV3204 or SCCOR3001

SCENV3800 Ecosystem conservation management

SCENV3912 Environmental assessment

Minor

SCBIO1001 Principles of Biology

SCENV1002 Biodiversity conservation

SCENV2200 Population and Community Ecology

SCENV2202 Wildlife ecology and conservation

ENVIRONMENTAL RESTORATION

Major

SCENV1001 Environmental studies

SCSUS1500 Sustainable earth

SCENV3400 Wetlands and water resources

SCENV3120 Landscape restoration and mine site rehabilitation

Four of: SCCOR3001, SCCHM2002, SCENV2500, SCENV3912, SCGEO2106

Minor

SCSUS1500 Sustainable earth

SCCHM2002 Environmental chemistry or SCGEO2106 Hydrology

SCENV3400 Wetlands and water resources

SCENV3120 Landscape restoration and mine site rehabilitation

EXERCISE SCIENCE

Major

EXSCI1702 Exercise Principles and Instruction

EXSCI1701 Introduction to Biomechanics

EXSCI2008 Applied Biomechanics

EXSCI2171 Exercise Physiology

EXSCI2175 Exercise Prescription 1

EXSCI3172 Exercise Prescription 2

EXSCI3002 Physical Preparation for Sport

EXSCI3173 Injury Prevention and Management in Human Movement

Minor

EXSCI1702 Exercise Principles and Instruction

EXSCI1701 Introduction to Biomechanics

EXSCI2171 Exercise Physiology

EXSCI2175 Exercise Prescription 1

HEALTH AND NUTRITION

Major

SCBIO1020 Systems biology

SCBCH1001 Introduction to nutrition

SCMIC2001 General Microbiology

SCBCH2002 Nutrition and Metabolism

SCMED2011 Pathophysiology 2

SCBCH3001 Lifespan Nutrition

SCMIC3002 Food microbiology

HEALT3006 Health Promotion

Minor

SCBIO1020 Systems biology

SCBCH1001 Introduction to Nutrition

SCBCH2002 Nutrition and Metabolism

SCMED2011 Pathophysiology 2

INFORMATION TECHNOLOGY

Minor

ITECH1100 Understanding the Digital Revolution

ITECH1103 Big Data and Analytics

ITECH2003 Web Design

ITECH2004 Data modelling

MATHEMATICS

Major

MATHS1001 Modelling and Change (Introductory level)

MATHS1102 Linear Algebra with Applications

MATHS2016 Modelling Continuous Change

Two of: MATHS2003, MATHS2009, MATHS2012

MATHS3001 Modelling and Change (Advanced)

Two of: MATHS3007, MATHS3004, MATHS3002

Minor (Calculus stream)

MATHS1001 Modelling and Change (Introductory level)

MATHS2016 Modelling Continuous Change

MATHS1102 Linear Algebra with Applications

One of: MATHS2003, MATHS2009, MATHS2012, MATHS3001

Minor (Non-calculus stream)

SCCOR1300 Scientific Practice

STATS1000 Statistical methods

Two of: MATHS2003, MATHS2009, MATHS2012

MICROBIOLOGY

Major

SCBIO1001 Principles of biology

SCCHM1001 Chemistry 1

SCMIC2001 General Microbiology

SCMOL2001 Biotechnology laboratory techniques

SCMIC3002 Food Microbiology

SCMIC3003 Clinical microbiology

SCMOL3010 Advanced methods in biotechnology

SCMOL3020 or SCCOR3001

Minor

SCBIO1001 Principles of biology

SCCHM1001 Chemistry 1

SCMIC2001 General Microbiology

SCMOL2001 Biotechnology laboratory techniques

MOLECULAR BIOLOGY

Major

SCBIO1001 Principles of biology
SCCHM1002 Chemistry 2
SCMIC2001 General Microbiology
SCMOL2001 Biotechnology laboratory techniques
SCMOL2010 Mammalian Genetics
SCMOL3010 Advanced methods in biotechnology
SCMOL3001 Molecular Cell Biology
SCCOR3001 Research project

Minor

SCBIO1001 Principles of biology
SCCHM1002 Chemistry 2
SCMOL2001 Biotechnology laboratory techniques
SCMOL2010 Mammalian genetics

STATISTICS

Minor

SCCOR1300 Scientific Practice
STATS1000 Statistical Methods
STATS2101 Statistics for Prediction
STATS2100 Experimental Design and Analysis