

## Enrolment Program Structure

Program Code – SC5

Program Name – Bachelor of Science

First Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
		SCBIO1001 OR SCSUS1500	
	SCCHM1001	Chemistry 1	
	SCCOR1300	Scientific Practice	<b>EX:</b> ENCOR1015 & MATHS1000
		SCENV1001 OR Elective	
<b>Semester 2</b>			
	SCCOR1200	Scientific Communication	<b>EX:</b> SCCOR2200
		Major Specialisation	
		Minor specialisation	
		SCENV or SCGEO Elective 1000 Level or Elective at 1000-1999 level	
Second Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	STATS1000	Statistical Methods	
		Major Specialisation	
		Minor Specialisation	
		Elective	
<b>Semester 2</b>			
		Major Specialisation	
		Minor Specialisation	
		Elective	
		Elective	

Third Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
		Major Specialisation	
		Major Specialisation	
		Elective	
		Elective	
<b>Semester 2</b>			
		Major Specialisation	
		Major Specialisation	
		Elective	
		Elective	

## 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

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 SCBIO1001 Principles of biology
 

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 SCCHM1002 Chemistry 2
 

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 Two of: SCBCH2001, SCBCH2002, SCMOL2001, SCVET2001
 

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**BIOLOGICAL SCIENCE**
**Major**

 SCBIO1001 Principles of biology
 

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 SCBIO1020 Systems biology
 

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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
 

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 SCBIO1020 Systems biology
 

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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
 

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 SCCHM1002 Chemistry 2
 

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 SCBCH2001 Biochemistry
 

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 SCCHM2001 Analytical techniques
 

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 SCCHM2002 Environmental chemistry
 

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 Three of: SCCHM3001, SCCHM3004, SCCHM3003, SCCOR3001
 

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**Minor**

 SCCHM1001 Chemistry 1
 

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 SCCHM1002 Chemistry 2
 

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 Two of: SCBCH2001, SCCHM2001, SCCHM2002
 

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**ECOLOGY**
**Major**

 SCBIO1001 Principles of Biology
 

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 SCENV1002 Biodiversity Conservation
 

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 SCENV2200 Population and Community Ecology
 

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 SCENV2202 Wildlife Ecology and Conservation
 

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 SCENV3110 Fire Ecology
 

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 SCENV3204 or SCCOR3001
 

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 SCENV3800 Ecosystem conservation management
 

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 SCENV3912 Environmental assessment
 

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**Minor**

SCBIO1001 Principles of Biology  
 SCENV1002 Biodiversity conservation  
 SCENV2200 Population and Community Ecology  
 SCENV2202 Wildlife ecology and conservation

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**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

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**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

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**GEOSCIENCE**
**Double major in geoscience**

SCCHM1001 Chemistry I  
 SCGEO1101 Landscape Evolution  
 SCGEO1103 Planet Earth  
 SCSUS1500 Sustainable earth  
 SCCHM2002 Environmental Chemistry  
 SCGEO2103 Structural Geology  
 SCGEO2106 Hydrology  
 SCGEO2107 Fieldwork Principles and Practice  
 SCGEO2112 Sedimentology and Stratigraphy

SCENV2600 GIS

SCGEO3102 Petrology

SCGEO3104 Fieldwork

SCGEO3105 Economic Geology

SCGEO3115 Geochemical and Geophysical Techniques

SCENV3120 Landscape Restoration

SCENV3500 Climate and Environmental Issues in a Changing World

## 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

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STATS1000 Statistical methods

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Two of: MATHS2003, MATHS2009, MATHS2012

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## **MICROBIOLOGY**

### **Major**

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SCBIO1001 Principles of biology

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SCCHM1001 Chemistry 1

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SCMIC2001 General Microbiology

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SCMOL2001 Biotechnology laboratory techniques

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SCMIC3002 Food Microbiology

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SCMIC3003 Clinical microbiology

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SCMOL3010 Advanced methods in biotechnology

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SCMOL3020 or SCCOR3001

### **Minor**

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SCBIO1001 Principles of biology

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SCCHM1001 Chemistry 1

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SCMIC2001 General Microbiology

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SCMOL2001 Biotechnology laboratory techniques

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## **MOLECULAR BIOLOGY**

### **Major**

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SCBIO1001 Principles of biology

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SCCHM1002 Chemistry 2

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SCMIC2001 General Microbiology

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SCMOL2001 Biotechnology laboratory techniques

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SCMOL2010 Mammalian Genetics

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SCMOL3010 Advanced methods in biotechnology

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SCMOL3001 Molecular Cell Biology

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SCCOR3001 Research project

### **Minor**

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SCBIO1001 Principles of biology

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SCCHM1002 Chemistry 2

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SCMOL2001 Biotechnology laboratory techniques

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SCMOL2010 Mammalian genetics

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## **STATISTICS**

### **Minor**

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SCCOR1300 Scientific Practice

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STATS1000 Statistical Methods

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STATS2101 Statistics for Prediction

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STATS2100 Experimental Design and Analysis

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### Additional Information

This program structure applies to students commencing from 2023. Students who commenced prior to 2023 should refer to the continuing enrolments page.

### 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.