

## Enrolment Course Structure

Course Code – SC5

Course Name – Bachelor of Science

First Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	SCCHM1001	Chemistry 1	
	SCCOR1200	Scientific Communication	<b>EX:</b> SCCOR2200
		SCBIO1001 OR Elective	
		SCENV or SCGEO Core or Major	
<b>Semester 2</b>			
	COOPC1026	Professional Identity (Science)	
	SCCOR1300	Scientific Practice	<b>EX:</b> ENCOR1015 & MATHS1000
		SCSUS1500 OR Elective	
		Major Specialisation	
Second Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
	STATS1000	Statistical Methods	
		SCENV or SCGEO Core or Major	
		Major Specialisation	
		Minor Specialisation	
<b>Semester 2</b>			
		Major Specialisation	
		Major Specialisation	
		Minor Specialisation	
		Elective	

Third Year	Unit Code	Unit Name	Unit Rules
<b>Semester 1</b>			
		Major Specialisation	
		Major Specialisation	
		Elective	
		Elective	
<b>Semester 2</b>			
	COOPC2006	Co-Operative Placement (Science)	<b>PR:</b> Minimum 105 credit points <b>EX:</b> BUGEN3751 & BUGEN3752 & SCCOR3003 & SCCOR3014
	OR		
	COOPC2001	Community Impact Project 1	
		Major Specialisation	
		Elective	
		Elective	

## Bachelor of Science Major and Minor Sequences

### BEHAVIOURAL SCIENCE

#### Major

PSYCB1101 Introductory Psychology A: Biological and Cognitive

PSYCB1102 Introductory Psychology B: Personality and Individual Differences

Three of:

- BEHAV2003 Behaviour in The Workplace
- BEHAV2004 Forensic Behavioural Science
- PSYCB2102 Lifespan Developmental Psychology
- PSYCB2103 Personality
- PSYCB2104 Social Psychology
- PSYCB2106 Psychology, Culture, and Indigenous Australians
- PSYCB2107 Cognitive and Biological Psychology

BEHAV3003 Health and Behaviour Change

BEHAV3004 Counselling Theory and Practice

PSYCB3102 Abnormal Psychology

#### Minor

PSYCB1101 Introductory Psychology A: Biological and Cognitive

PSYCB1102 Introductory Psychology B: Personality and Individual Differences

Two of:

- BEHAV2003 Behaviour in The Workplace
- BEHAV2004 Forensic Behavioural Science
- PSYCB2102 Lifespan Developmental Psychology

- PSYCB2103 Personality
- PSYCB2104 Social Psychology
- PSYCB2106 Psychology, Culture, and Indigenous Australians
- PSYCB2107 Cognitive and Biological Psychology

## 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 Molecular Cell Biology
- SCMOL3010 Advanced Methods in Biotechnology
- SCCHM3001 Medicinal Chemistry
- SCCHM3004 Organic Synthesis for Drug Design

### Minor

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

Two of:

- SCBCH2001 Biochemistry
- SCBCH2002 Nutrition and Metabolism
- SCMOL2001 Biotechnology Laboratory Techniques or SCCHM2001 Analytical Techniques

## BIOLOGICAL SCIENCE

### Major

SCBIO1001 Principles of biology

SCBIO1020 Systems biology

Three (pairs) of:

- SCMED2010 Pathophysiology 1 and SCMED3034 Histopathology and Haematology
- SCMOL2010 Mammalian genetics and SCMOL3001 Molecular Cell Biology
- SCMIC2001 General Microbiology and SCMIC3003 Clinical microbiology
- SCBCH2002 Nutrition and Metabolism and SCMED3010 Pharmacology & toxicology
- SCVET2001 Animal Management and Disease and SCVET3001 Case studies in animal mgt
- SCENV2100 Australian Fauna and SCENV2101 Australian flora

### Minor

SCBIO1001 Principles of biology

SCBIO1020 Systems biology

One (pair) of:

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

## CHEMISTRY

### Major

SCCHM1001 Chemistry 1

SCCHM1002 Chemistry 2

SCBCH2001 Biochemistry

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 SCCHM2001 Analytical techniques

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 SCCHM2002 Environmental chemistry

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 Three of:

- SCCHM3001 Medicinal Chemistry
- SCCHM3003 Food Chemistry
- SCCHM3004 Organic Synthesis for Drug Design
- SCCOR3001 Research Project

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**Minor**


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 SCCHM1001 Chemistry 1

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 SCCHM1002 Chemistry 2

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 Two of:

- SCBCH2001 Biochemistry
- SCCHM2001 Analytical Techniques
- SCCHM2002 Environmental Chemistry

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**ECOLOGY**


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**Major**


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 SCENV1001 Environmental studies

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 SCENV1002 Biodiversity Conservation

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 SCENV2200 Population and Community Ecology

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 Two of:

- SCENV2100 Australian Fauna
- SCENV2101 Australian Flora
- SCENV2202 Wildlife Ecology and Conservation
- SCENV3800 Ecosystems Conservation and Management

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 SCENV3110 Fire Ecology: Burning Issues for Science and Management

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 OR

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 SCENV3204 Arid Zone: Ecology, Management And Challenges

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 SCENV3912 Environmental assessment

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**Minor**


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 SCENV1001 Environmental studies

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 SCENV1002 Biodiversity conservation

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 SCENV2200 Population and Community Ecology

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 One of:

- SCENV2100 Australian Fauna
- SCENV2101 Australian Flora
- SCENV2202 Wildlife Ecology and Conservation

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**ENVIRONMENTAL RESTORATION**


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**Major**


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 SCCHM2002 Environmental Chemistry

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 SCENV1001 Environmental Studies

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 SCENV2804 Invasive Species

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 SCENV3120 Landscape Restoration and Mine Site Rehabilitation

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 SCENV3400 Wetlands and Water Resources

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 SCENV3500 Climate and Environmental Issues in a Changing World

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 SCENV3912 Environmental Assessment

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 SCSUS1500 Sustainable Earth

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**Minor**


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 SCCHM2002 Environmental chemistry

SCENV1001 Environmental studies

SCENV2804 Invasive Species

SCSUS1500 Sustainable earth

## FOOD SCIENCE

### Double major

SCBCH1001 Introduction to Nutrition

SCBCH2001 Biochemistry

SCBCH2002 Nutrition and Metabolism

SCBCH3001 Lifespan Nutrition

SCBIO1020 Systems Biology

SCCHM1002 Chemistry 2

SCCHM2001 Analytical Techniques

SCCHM3003 Food Chemistry

SCCOR3000 Laboratory Management and Quality Assurance

SCCOR3013 Workplace Experience

SCFST2023 Food Processing Systems 1

SCFST3026 Product and Process Development

SCMIC2001 General Microbiology

SCMIC3002 Food Microbiology

SCMOL2001 Biotechnology Laboratory Techniques

### Major

SCBCH1001 Introduction to Nutrition

SCBCH2002 Nutrition and Metabolism

SCCHM1002 Chemistry 2

SCCHM3003 Food Chemistry

SCCOR3000 Laboratory Management and Quality Assurance

SCFST2023 Food Processing Systems 1

SCFST3026 Product and Process Development

SCMIC3002 Food Microbiology

### Minor

SCBCH1001 Introduction to Nutrition

SCCHM1002 Chemistry 2

SCFST2023 Food Processing Systems 1

SCFST3026 Product and Process Development

## GEOSCIENCE

### Double major in Geoscience

SCCHM1001 Chemistry I

SCGEO1104 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

SCGEO3115 Geochemical and Geophysical Techniques

SCGEO3116 Economic Geology

SCENV3120 Landscape Restoration

SCENV3500 Climate and Environmental Issues in a Changing World

**Major**

SCGEO1103 Planet Earth

SCGEO1104 Landscape Evolution

SCGEO2103 Structural Geology

SCGEO2107 Fieldwork Principles and Practice

SCGEO2112 Sedimentology and Stratigraphy

SCGEO3102 Petrology

SCGEO3115 Geochemical and Geophysical Techniques

SCGEO3116 Economic Geology

**Minor**

SCGEO1103 Planet Earth

SCGEO1104 Landscape Evolution

SCGEO2103 Structural Geology

SCGEO2112 Sedimentology and Stratigraphy

**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

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 ITECH2003 Web Design
 

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 ITECH2004 Data modelling
 

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**MATHEMATICS**
**Major**

 MATHS1001 Modelling and Change (Introductory level)
 

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 MATHS1102 Linear Algebra with Applications
 

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 MATHS2016 Modelling Continuous Change
 

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Two of:

- MATHS2003 Profit, Loss, and Gambling (Intermediate Level)
- MATHS2009 Space, Shape & Design (Intermediate Level)
- MATHS2012 Graphs, Digraphs & Networks

 MATHS3001 Modelling and Change (Advanced)
 

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 MATHS3002 Analytics Project 1
 

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OR

 SCCOR3001 Research Project
 

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 MATHS3007 Puzzles, Patterns and Proofs (Advanced level)
 

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**Minor (Calculus stream)**

 MATHS1001 Modelling and Change (Introductory level)
 

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 MATHS1102 Linear Algebra with Applications
 

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 MATHS2016 Modelling Continuous Change
 

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One of:

- MATHS2003 Profit, Loss, and Gambling (Intermediate Level)
- MATHS2009 Space, Shape & Design (Intermediate Level)
- MATHS2012 Graphs, Digraphs & Networks
- MATHS3001 Modelling and Change (Advanced Level)

**Minor (Non-calculus stream)**

 MATHS1000 Upon the Shoulders of Giants
 

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 STATS1000 Statistical methods
 

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Two of:

- MATHS2003 Profit, Loss, and Gambling (Intermediate Level)
- MATHS2009 Space, Shape & Design (Intermediate Level)
- MATHS2012 Graphs, Digraphs & Networks

**MICROBIOLOGY**
**Major**

 SCBIO1001 Principles of biology
 

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 SCCHM1001 Chemistry 1
 

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 SCMIC2001 General Microbiology
 

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 SCMIC3002 Food Microbiology
 

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 SCMIC3003 Clinical microbiology
 

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 SCMOL2001 Biotechnology laboratory techniques
 

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Two of:

- SCCOR3001 Research Project
- SCMOL3010 Advanced Methods in Biotechnology
- SCMOL3020 Immunology

**Minor**

 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**

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

SCCOR3001 Research Project

SCMIC2001 General Microbiology

SCMOL2010 Mammalian Genetics

SCMOL3001 Molecular Cell Biology

SCMOL3010 Advanced Methods in Biotechnology

**Minor**

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

SCMIC2001 General Microbiology

SCMOL2010 Mammalian Genetics

**STATISTICS**
**Minor**

SCCOR1300 Scientific Practice

STATS1000 Statistical Methods

STATS2101 Statistics for Prediction

STATS2100 Experimental Design and Analysis

**Course Rules**

- SCENV elective at 1000-1999 level can be completed in any year, Semester 1 or Semester 2 to accommodate core units in major sequences (eg Behavioural Science) to be completed. SCENV1002 is preferred unit.
- Students must complete all core unit, plus either:
  - one major sequence (eight 15cpt units) and one minor sequence (four 15cpt units), or
  - a double major sequence (sixteen 15cpt units)
- Electives make up the remaining units to a total of 360 points.
- A maximum of ten 1000 level units, and a minimum of four 3000 level units are required.

**Additional Information**

This course structure applies to students commencing from 2024.

*TEQSA have advised that, in accordance with B1.1.3 of [Higher Education Standards Framework \(Threshold Standards\) 2021](#) all Higher Education Providers are required to show their TEQSA Provider number and Provider Category on all relevant public material. ITS have ensured that our website and email signature templates have been amended to ensure compliance and have provided a knowledge article to assist you to update your signatures. Marketing are working to update the brand library and all social media accounts.*



## Glossary

**Semester:** designated teaching period.

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

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

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