

## Enrolment Program Structure

Program Code – SC5.ADV

Program Name – Bachelor of Science (Advanced)

First Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	STATS1000	Statistical Methods	
		Science Elective	
		Specialisation Major 1	
		Specialisation Major 2	
<b>Semester 2</b>			
	SCCOR2200	Advanced Scientific Communication	<b>PR:</b> 60 points level 1 courses <b>EX:</b> SCCOR1200
		Science Elective	
		Specialisation Major 1	
		Specialisation Major 2	
Second Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
		Elective	
		Specialisation Major 1	
		Specialisation Major 1	
		Specialisation Major 2	
<b>Semester 2</b>			
		Elective	
		Specialisation Major 1	
		Specialisation Major 2	
		Specialisation Major 2	

Third Year	Course Code	Course Name	Course Rules
<b>Semester 1</b>			
	SCCOR3003 OR (TWO OF SCCOR3001 & SCCOR3013 & SCCOR3014)		
		Specialisation Major	
		Specialisation Major	
		Specialisation Major	
<b>Semester 2</b>			
	SCCOR3003 OR (TWO OF SCCOR3001 & SCCOR3013 & SCCOR3014)		
		Specialisation Major	
		Specialisation Major	
		Specialisation Major	

## 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, BEHAV2004, PSYCB2102, PSYCB2103, PSYCB2104, PSYCB2106, PSYCB2107

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, BEHAV2004, PSYCB2102, PSYCB2103, PSYCB2104, PSYCB2106, PSYCB2107

### 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**

SCENV1001 Environmental studies

SCENV1002 Biodiversity Conservation

SCENV2200 Population and Community Ecology

Two of: SCENV2202, SCENV2100, SCENV2101

SCENV3110 OR SCENV3204

SCENV3800 Ecosystem conservation management

SCENV3912 Environmental assessment

### **Minor**

SCENV1001 Environmental studies  
 SCENV1002 Biodiversity conservation  
 SCENV2200 Population and Community Ecology  
 Two of: SCENV2202, SCENV2100, SCENV2101

## ENVIRONMENTAL RESTORATION

### Major

SCCHM2002 Environmental Chemistry  
 SCENV1001 Environmental Studies  
 SCENV2804 Invasive Species  
 SCENV3120 Landscape Restoration and Mine Site Rehabilitation  
 SCENV3400 Wetlands and Water Resources  
 SCENV3500 Climate and Environmental Issues in a Changing World  
 SCENV3912 Environmental Assessment  
 SCSUS1500 Sustainable Earth

### Minor

SCCHM2002 Environmental chemistry or SCGEO2106 Hydrology  
 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  
 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  
 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  
 ITECH2003 Web Design  
 ITECH2004 Data modelling

**MATHEMATICS**
**Major (Calculus stream)**

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)  
 MATHS3002 OR SCCOR3001  
 MATHS3007 Puzzles, Patterns and Proofs (Advanced level)

**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)**

MATHS1000 Upon the Shoulders of Giants  
 STATS1000 Statistical methods  
 Two of: MATHS2003, MATHS2009, MATHS2012

**MICROBIOLOGY**
**Major**

SCBIO1001 Principles of biology  
 SCCHM1001 Chemistry 1  
 SCMIC2001 General Microbiology  
 SCMIC3002 Food Microbiology

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 SCMIC3003 Clinical microbiology  
 SCMOL2001 Biotechnology laboratory techniques  
 Two of: SCCOR3001, SCMOL3010, SCMOL3020
 

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**Minor**


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 SCBIO1001 Principles of biology  
 SCCHM1001 Chemistry 1  
 SCMIC2001 General Microbiology  
 SCMOL2001 Biotechnology laboratory techniques
 

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**STATISTICS**
**Minor**


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

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**Program Rules**

- Students must complete either 2 major sequences or a double major sequence
- Students must complete either SCCOR3003 Industry based learning (30 cpt) or SCCOR3001 Research project and either SCCOR3014 Industry based learning (15 cpt) or SCCOR3013 Workplace experience (15 cpt)
- A maximum of ten 1000 level courses, and a minimum of four 3000 level courses are required.

**Additional Information**

This course structure applies to continuing students who commenced in 2023 or prior.

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 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.