Enrolment Course Structure

Course Code – SC5

Course Name – Bachelor of Science

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	SCCHM1001	Chemistry 1	
		SCCOR1300 OR MATHS1001	
		SCBIO1001 OR SCSUS1500	
		SCENV or SCGEO Elective 1000 Level or Major or Minor	
Semester 2			
	SCCOR1200	Scientific Communication	**EX:** SCCOR2200
		Major Specialisation	
		Minor specialisation	
		SCENV or SCGEO Elective 1000 Level or Elective at 1000-1999 level	
Second Year	**Unit Code**	**Unit Name**	**Unit Rules**
Semester 1			
	STATS1000	Statistical Methods	
		Major Specialisation	
		Minor Specialisation	
		Elective	
Semester 2			
		Major Specialisation	
		Minor Specialisation	
		Elective	
		Elective	

Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
		Major Specialisation	
		Major Specialisation	
		Elective	
		Elective	
Semester 2			
		Major Specialisation	
		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 1and 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

SCCHM2001 Analytical techniques

SCCHM2002 Environmental chemistry

Three of: ○ SCCHM3001 Medicinal Chemistry ○ SCCHM3003 Food Chemistry ○ SCCHM3004 Organic Synthesis for Drug Design ○ SCCOR3001 Research Project
Minor
SCCHM1001 Chemistry 1
SCCHM1002 Chemistry 2
Two of: ○ SCBCH2001 Biochemistry ○ SCCHM2001 Analytical Techniques ○ SCCHM2002 Environmental Chemistry

ECOLOGY

Major
SCENV1001 Environmental studies
SCENV1002 Biodiversity Conservation
SCENV2200 Population and Community Ecology
Two of: ○ SCENV2100 Australian Fauna ○ SCENV2101 Australian Flora ○ SCENV2202 Wildlife Ecology and Conservation ○ SCENV3800 Ecosystems Conservation and Management
SCENV3110 Fire Ecology: Burning Issues for Science and Management OR SCENV3204 Arid Zone: Ecology, Management And Challenges
SCENV3912 Environmental assessment
Minor
SCENV1001 Environmental studies
SCENV1002 Biodiversity conservation
SCENV2200 Population and Community Ecology
One of: ○ SCENV2100 Australian Fauna ○ SCENV2101 Australian Flora ○ SCENV2202 Wildlife Ecology and Conservation

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
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
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 Profit, Loss, and Gambling (Intermediate Level) ○ MATHS2009 Space, Shape & Design (Intermediate Level) ○ MATHS2012 Graphs, Digraphs & Networks
MATHS3001 Modelling and Change (Advanced)
MATHS3002 Analytics Project 1 OR SCCOR3001 Research Project
MATHS3007 Puzzles, Patterns and Proofs (Advanced level)
Minor (Calculus stream)
MATHS1001 Modelling and Change (Introductory level)
MATHS1102 Linear Algebra with Applications
MATHS2016 Modelling Continuous Change
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
STATS1000 Statistical methods
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
SCCHM1001 Chemistry 1
SCMIC2001 General Microbiology
SCMIC3002 Food Microbiology
SCMIC3003 Clinical microbiology
SCMOL2001 Biotechnology laboratory techniques
Two of: ○ SCCOR3001 Research Project ○ SCMOL3010 Advanced Methods in Biotechnology ○ SCMOL3020 Immunology
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
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 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 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.