

Enrolment Course Structure

Course Code - SI5

Course Name - Bachelor of Science

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	SCBIO1001	Principles of Biology	
	SCCHM1001	Chemistry 1	
	SCCOR1200	Scientific Communication	
		Major	
Semester 2			
	COOPS1001	Professional Identity (Science)	
	SCCOR1300	Scientific Practice	
		Minor	
		Major	
Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
		Major	
		Minor	
		Elective	
		Elective	
Somostor 2			

C	OOPS2011	Co-op placement 1
		Major
		Minor
		Elective

Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	COOPS2012	Co-op placement 2	
		Major	
		Major	
Semester 2			
		Major	
		Major	
		Minor / Elective	
		Elective	

Bachelor of Science Major and Minor Sequences

SCMOL2001 Biotechnology Laboratory Techniques

Major
SCBCH2001 Biochemistry
SCBCH2002 Nutrition and Metabolism
SCBCH3010 Advanced Bioanalytical Techniques
SCBIO1001 Principles of Biology
SCCHM1002 Chemistry 2
SCCHM3001 Medicinal Chemistry
SCMOL2001 Biotechnology Laboratory Techniques
SCMOL3001 Molecular Cell Biology
Minor
SCBIO1001 Principles of Biology
SCCHM1002 Chemistry 2
Two of:
SCBCH2001 Biochemistry
SCBCH2002 Nutrition and Metabolism

BIOLOGICAL SCIENCE

SCBIO1001 Principles of Biology

SCCHM1002 Chemistry 2

Three (pairs) of:

• SCMED2010 Pathophysiology 1 and SCMED3034 Histopathology and Haematology

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- SCMOL2010 Mammalian Genetics and SCMOL3001 Molecular Cell Biology
- SCMIC2001 General Microbiology and SCMIC3003 Clinical Microbiology or SCMIC3002 Food Microbiology
- SCBCH2002 Nutrition and Metabolism and SCMED3010 Pharmacology and Toxicology
- SCVET2001 Animal Management and Disease and SCVET3001 Case Studies in Animal Management
- SCENV2100 Australian Fauna and SCENV2101 Australian Flora

Minor

SCBIO1001 Principles of Biology

SCCHM1002 Chemistry 2

One (pair) 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 and Toxicology
- SCVET2001 Animal Management and Disease and SCVET3001 Case Studies in Animal Management
- SCENV2100 Australian Fauna and SCENV2101 Australian Flora

BREWING

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	DIC	IVIC	IVI

SCBCH2001 Biochemistry

SCBCH2002 Nutrition and Metabolism

SCBCH3010 Advanced Bioanalytical Techniques

SCBRW5081 Brewing Raw Materials

SCBRW5082 The Brewing Process

SCCHM1001 Chemistry 1

SCCHM1002 Chemistry 2

SCCHM2001 Analytical Techniques

SCCHM3003 Food Chemistry

SCFST2023 Food Processing Systems 1

SCMIC2001 General Microbiology

SCMIC3002 Food Microbiology

SCMOL2001 Biotechnology Laboratory Techniques

Minor

SCBRW5081 Brewing Raw Materials

SCBRW5082 The Brewing Process

SCCHM1002 Chemistry 2

SCFST2023 Food Processing systems 1 or SCMIC2001 General Microbiology

CHEMISTRY AND ANALYTICAL SCIENCE

Double Major

SCBCH2001 Biochemistry

SCBCH3010 Advanced Bioanalytical Techniques

SCBIO1001 Principles of Biology

SCCHM1001 Chemistry 1

SCCHM1002 Chemistry 2

SCCHM2001 Analytical Techniques

SCCHM2002 Environmental Chemistry

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Minor

	1 Medicinal Chemistry
	3 Food Chemistry
	4 Organic Synthesis for Drug Design
SCCOR300	1 Research Project
SCMOL200	1 Biotechnology Laboratory Techniques
STATS1000) Statistical Methods
STATS2100	Experimental Design and Analysis
Two of:	
• SC	ENV3400 Wetlands and Water Resources
• SC	ENV3912 Environmental Assessment
• SC	MED3010 Pharmacology and Toxicology
• STA	ATS2101 Statistics for Prediction
• SC	MIC3002 Food Microbiology
CHEMICEDY	
CHEMISTRY Major	
	1 Dischamistry
	1 Biochemistry
	11 Chemistry 1
	22 Chemistry 2
	11 Analytical Techniques
	2 Environmental Chemistry
Three of:	DOLLOOMO Advanced Bisershidisel Techniques
	BCH3010 Advanced Bioanalytical Techniques
	CHM3001 Medicinal Chemistry
	CHM3003 Food Chemistry
• SC	CHM3004 Organic Synthesis for Drug Design
	01 Chemistry 1
	22 Chemistry 2
Two of:	2 Offernous 2
	BCH2001 Biochemistry
	CHM2001 Analytical Techniques
	CHM2002 Environmental Chemistry
- 30	Offivizouz Environmental Grieffistry
ECOLOGY	
Major	
SCENV100	1 Environmental Studies
SCENV100	2 Biodiversity Conservation
SCENV210	0 Australian Fauna <i>or</i> SCENV2101 Australian Flora
SCENV220	0 Population and Community Ecology
	0 FIELD-BASED INVESTIGATION
SCENV311	0 Fire Ecology: Burning Issues for Science and Management
	4 Arid Zone: Ecology, Management and Challenges
	2 Wildlife and Ecosystem Conservation
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SCENV1001 Environmental Studies
SCENV1002 Biodiversity Conservation
SCENV2200 Population and Community Ecology
SCENV2100 Australian Fauna or SCENV2101 Australian Flora
ENVIRONMENTAL RESTORATION
Major
SCCHM2002 Environmental Chemistry or SCENV2100 Australian Fauna
SCENV2101 Australian Flora
SCENV1001 Environmental Studies
SCENV2804 Invasive Species: Ecology, Management and Challenges
SCENV3120 Landscape Restoration and Mine Site Rehabilitation
SCENV3400 Wetlands and Water Resources or SCENV3500 Climate and Environmental Issues in a Changing World
SCENV3912 Environmental Assessment
SCSUS1500 Sustainable Earth
Minor
SCENV1001 Environmental Studies
SCENV2804 Invasive Species: Ecology, Management and Challenges
SCENV3120 Landscape Restoration and Mine Site Rehabilitation
SCSUS1500 Sustainable Earth
FOOD SCIENCE Major
SCBCH1001 Introduction to Nutrition
SCBCH2002 Nutrition and Metabolism
SCCHM1002 Chemistry 2
SCCHM2001 Analytical Techniques
SCCHM3003 Food Chemistry
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 1
SCCHM2002 Environmental Chemistry
SCENV2600 Geographic Information Systems
SCENV3120 Landscape Restoration and Mine Site Rehabilitation
SCENV3500 Climate and Environmental Issues in a Changing World
SCGEO1103 Planet Earth Page 5 of



SCBIO1001 Principles of Biology	Page 6 of
Minor	
SCBCH3010 Advanced Bioanalytical Techniques	
SCMOL2001 Biotechnology Laboratory Techniques	
SCMIC3003 Clinical Microbiology	
SCMIC2001 General Microbiology	
SCCHM3001 Medicinal Chemistry	
SCCHM2001 Analytical Techniques	
SCCHM1002 Chemistry 2	
SCBIO1001 Principles of Biology	
SCBCH3010 Advanced Bioanalytical Techniques	
Major	
LABORATORY BIOSCIENCE	
ITECH2004 Data Modelling	
ITECH2003 Web Design	
ITECH1503 Data and Information Systems	
ITECH1500 Digital Literacy	
Minor	
INFORMATION TECHNOLOGY	
SCGEO2112 Sedimentology and Stratigraphy	
SCGEO2103 Structural Geology	
SCGEO1104 Landscape Evolution	
SCGEO1103 Planet Earth	
Minor	
SCGEO3116 Economic Geology	
SCGEO3115 Geochemical and Geophysical Techniques	
SCGEO3102 Petrology	
SCGEO2112 Sedimentology and Stratigraphy	
SCGEO2107 Fieldwork Principles and Practice	
SCGEO2103 Structural Geology	
SCGEO1104 Landscape Evolution	
SCGEO1103 Planet Earth	
Major	
SCSUS1500 Sustainable Earth	
SCGEO3116 Economic Geology	
SCGEO3115 Geochemical and Geophysical Techniques	
SCGEO3104 Fieldwork	
SCGEO3102 Petrology	
SCGEO2107 Fieldwork Filliciples and Fractice SCGEO2112 Sedimentology and Stratigraphy	
SCGEO2106 Hydrology SCGEO2107 Fieldwork Principles and Practice	
SCGEO2103 Structural Geology	
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SCCHM1002 Chemistry 2	
SCCHM2001 Analytical Techniques	
SCMOL2001 Biotechnology Laboratory Techniques	
MATHEMATICS	
Minor (Calculus stream) *required for VIT registration for VCE teaching	
MATHS1100 Applied Mathematics 1	
MATHS2100 Applied Mathematics 2	
MATHS3100 Applied Mathematics 3	
STATS1000 Statistical Methods	
Minor (Non-calculus stream)	
MATHS1100 Applied Mathematics 1	
STATS1000 Statistical Methods	
Two of:	
MATHS2003 Profit, Loss and Gambling (Intermediate Level)	
MATHS2009 Space, Shape and Design (Intermediate Level)	
MATHS2012 Graphs, Digraphs and Networks	
MEDICAL SCIENCE	
Major	
SCBCH2001 Biochemistry	
SCBIO1020 Systems Biology	
SCCHM1002 Chemistry 2	
SCMED2010 Pathophysiology 1	
SCMED3010 Pharmacology and Toxicology	
SCMED3034 Histopathology and Haematology	
SCMOL2010 Mammalian Genetics	
SCMOL3020 Immunology	
Minor	
SCBCH2001 Biochemistry or SCMED2010 Pathophysiology 1	
SCBIO1020 Systems Biology	
SCCHM1002 Chemistry 2	
SCMOL2010 Mammalian Genetics	
SCIVIOLZU IV IVIAITIITIAIIATI GENELICS	
MICROBIOLOGY	
Major	
SCBCH3010 Advanced Bioanalytical Techniques	
SCBIO1001 Principles of Biology	
SCCHM1002 Chemistry 2	
SCMIC2001 General Microbiology	
SCMIC3002 Food Microbiology	
SCMIC3003 Clinical Microbiology	
SCMOL 2020 Immunology	
SCMOL3020 Immunology Minor	Page 7 of 9



CBIO1001 Principles of Biology	
CCHM1001 Chemistry 1	
CMIC2001 General Microbiology	
CMOL2001 Biotechnology Laboratory Techniques	
ATISTICS	
linor	
IATHS1100 Applied Mathematics 1	
TATS1000 Statistical Methods	
TATS2100 Experimental Design and Analysis	
TATS2101 Statistics for Prediction	
TERINARY RICCOLENGE	
TERINARY BIOSCIENCE ouble Major	
courses marked with an asterisk are compulsory for students hoping to complete a Veterinary Science/Veterinary Medicine graduate qualif	fication
CBCH1001 Introduction to Nutrition or SCBCH2001 Biochemistry* CBCH2002 Nutrition and Metabolism*	
CBIO1020 Systems Biology	
CCHM1002 Chemistry 2* or elective	
CENV1002 Biodiversity Conservation	
CMED2010 Pathophysiology 1	
CMED2011 Pathophysiology 2	
CMED3010 Pharmacology and Toxicology	
CMED3034 Histopathology and Haematology	
CMIC2001 General Microbiology	
CMIC3003 Clinical Microbiology* or SCCOR3001 Research Project	
CMOL2001 Biotechnology Laboratory Techniques	
CMOL3020 Immunology	
CVET2001 Animal Management and Disease	
CVET3001 Case Studies in Animal Management	
LDLIFE AND ECOSYSTEM CONSERVATION	
ouble Major	
CENV1001 Environmental Studies	
CENV1002 Biodiversity Conservation	
CENV2100 Australian Fauna	
CENV2101 Australian Flora	
CENV2200 Population and Community Ecology	
CENV2500 FIELD-BASED INVESTIGATION	
CENV2600 Geographic Information Systems	
CENV2804 Invasive Species: Ecology, Management and Challenges	
CENV3500 Climate and Environmental Issues in a Changing World	
CENV3802 Wildlife and Ecosystem Conservation	
CENV3912 Environmental Assessment	



Two of:

SCSUS1500 Sustainable Earth

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- SCCHM2002 Environmental Chemistry
- SCCOR3001 Research Project
- SCENV3110 Fire Ecology: Burning Issues for Science and Management
- SCENV3120 Landscape Restoration and Mine Site Rehabilitation
- SCENV3204 Arid Zone: Ecology, Management and Challenges
- SCENV3400 Wetlands and Water Resources
- SCEXC2500 International Exchange

Course Rules

- The Bachelor of Science course requires three years of full-time study or equivalent part-time study.
- Students must complete all core units, plus either:
 - -one major sequence (8 x 15cp units) and one minor sequence (4 x 15 cp units), or
 - -a double major sequences (14 x 15cp units) available in Brewing and Food Science, Chemistry and Analytical Science, Veterinary Bioscience, Wildlife and Ecosystem Conservation
- A maximum of ten 1000-level units and a minimum of four 3000-level units are required
- The Co-op Placement unit can be completed as 2 x 30cp units at any time in the second and third year of study

Additional Information

This course structure applies to students commencing from 2025. Students who commenced prior to 2025 should refer to the continuing enrolments page.

TEQSA have advised that, in accordance with B1.1.3 of <u>Higher Education Standards Framework (Threshold Standards) 2021</u> 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.

