

Enrolment Course Structure

Course Code - SC5.ADV

Course Name – Bachelor of Science (Advanced)

First Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	STATS1000	Statistical Methods	
		Science Elective	
		Specialisation Major 1	
		Specialisation Major 2	
Semester 2			
	SCCOR2200	Advanced Scientific Communication	PR: 60 points level 1 units EX: SCCOR1200
	COOPC1026	Professional Identity (Science)	
		Specialisation Major 1	
		Specialisation Major 2	

Second Year	Unit Code	Unit Name	Unit Rules
Semester 1			
		Specialisation Major 1	
		Specialisation Major 1	
		Specialisation Major 2	
		Elective	
Semester 2			
		Specialisation Major 1	
		Specialisation Major 2	
		Specialisation Major 2	
		Elective	



Third Year	Unit Code	Unit Name	Unit Rules
Semester 1			
	COOPC2006	Co-Operative Placement (Science)\	PR: Minimum 105 credit points EX: BUGEN3751 & BUGEN3752 &
	OR		SCCOR3003 & SCCOR3014
	COOPC2001	Community Impact Project 1	PR : 120cp
		Specialisation Major 1	
		Specialisation Major 1	
		Specialisation Major 2	
Semester 2			
		Specialisation Major 1	
		Specialisation Major 2	
		Specialisation Major 2	
		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:

- o BEHAV2003 Behaviour in The Workplace
- BEHAV2004 Forensic Behavioural Science
- o 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:

- o BEHAV2003 Behaviour in The Workplace
- o BEHAV2004 Forensic Behavioural Science
- o PSYCB2102 Lifespan Developmental Psychology
- PSYCB2103 Personality

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- 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
- o 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
- 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

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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
- o 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:

- o 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

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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

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SCCEO1102 Dianet Forth
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:

- o 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

- o 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

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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	

Course 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 units, and a minimum or four 3000 level units are required.

Additional Information

STATS2100 Experimental Design and Analysis

This course structure applies to students commencing from 2024. Students who commenced prior to 2024 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.