

Enrolment Program Structure

Program Code - SC5.ADV

Program Name - Bachelor of Science (Advanced)

First Year			
Semester 1	Course Code	Course Name	Course Rules
	STATS1000	Statistical Methods	
		Science Elective	
		Specialisation Major 1	
		Specialisation Major 2	
Semester 2			
	SCCOR2200	Advanced Scientific Communication	
		Science Elective	
		Specialisation Major 1	
		Specialisation Major 2	
Second Year			
Semester 1	Course Code	Course Name	Course Rules
		Elective	
		Specialisation Major 1	
		Specialisation Major 1	
		Specialisation Major 2	
Semester 2			
		Elective	
		Specialisation Major 1	
		Specialisation Major 2	
		Specialisation Major 2	
Third Year			
Semester 1	Course Code	Course Name	Course Rules

IBLGC2030	Industry Based Learning: Science	PR: VASAP2003 & VASAP2004 CO: VASAP3005
	Specialisation Major 1	
	Specialisation Major 1	
	Specialisation Major 2	
Semester 2		
IBLGC2030	Industry Based Learning: Science	PR: VASAP2003 & VASAP2004 CO: VASAP3005
	Specialisation Major	
	Specialisation Major 2	
	Specialisation Major 2	

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.

Additional Information

This program structure applies to students commencing from 2022. Students who commenced prior to 2022 should refer to the continuing enrolments page.

The second and third years of this program consist of the majors, minors and electives selected by the students. Please refer to the document below for assistance with selecting your 1st Level Electives for your second semester of first year.

Bachelor of Science Major and Minor Sequences

BEHAVIOURAL SCIENCE

Major

BEHAV1001 Human Behaviour in the Modern World

BEHAV1002 Brains and Behaviour

Three of: BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004

BEHAV3003 Health and Behaviour Change

BEHAV3004 Counselling Theory and Practice

CHSUG3001 Critical Practice Approaches

Minor

BEHAV1001 Human Behaviour in the Modern World

BEHAV1002 Brains and Behaviour

Two of: BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004

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

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- 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*
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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

- SCBIO1001 Principles of Biology
- SCENV1002 Biodiversity Conservation
- SCENV2200 Population and Community Ecology
- SCENV2202 Wildlife Ecology and Conservation
- SCENV3110 Fire Ecology
- SCENV3204 or SCCOR3001
- SCENV3800 Ecosystem conservation management
- SCENV3912 Environmental assessment

Minor

- SCBIO1001 Principles of Biology
- SCENV1002 Biodiversity conservation
- SCENV2200 Population and Community Ecology
- SCENV2202 Wildlife ecology and conservation

ENVIRONMENTAL RESTORATION

Major

- SCENV1001 Environmental studies
- SCSUS1500 Sustainable earth
- SCENV3400 Wetlands and water resources
- SCENV3120 Landscape restoration and mine site rehabilitation
- Four of: SCCOR3001, SCCHM2002, SCENV2500, SCENV3912, SCGEO2106*

Minor

SCSUS1500 Sustainable earth

SCCHM2002 Environmental chemistry or SCGEO2106 Hydrology

SCENV3400 Wetlands and water resources

SCENV3120 Landscape restoration and mine site rehabilitation

EXERCISE SCIENCE

Major

EXSCI1702 Exercise Principles and Instruction

EXSCI1701 Introduction to Biomechanics

EXSCI2008 Applied Biomechanics

EXSCI2171 Exercise Physiology

EXSCI2175 Exercise Prescription 1

EXSCI3172 Exercise Prescription 2

EXSCI3002 Physical Preparation for Sport

EXSCI3173 Injury Prevention and Management in Human Movement

Minor

EXSCI1702 Exercise Principles and Instruction

EXSCI1701 Introduction to Biomechanics

EXSCI2171 Exercise Physiology

EXSCI2175 Exercise Prescription 1

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, MATHS2009, MATHS2012

MATHS3001 Modelling and Change (Advanced)

Two of: MATHS3007, MATHS3004, MATHS3002

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)

SCCOR1300 Scientific Practice

STATS1000 Statistical methods

Two of: MATHS2003, MATHS2009, MATHS2012

MICROBIOLOGY

Major

SCBIO1001 Principles of biology

SCCHM1001 Chemistry 1

SCMIC2001 General Microbiology

SCMOL2001 Biotechnology laboratory techniques

SCMIC3002 Food Microbiology

SCMIC3003 Clinical microbiology

SCMOL3010 Advanced methods in biotechnology

SCMOL3020 or SCCOR3001

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

SCMIC2001 General Microbiology

SCMOL2001 Biotechnology laboratory techniques

SCMOL2010 Mammalian Genetics

SCMOL3010 Advanced methods in biotechnology

SCMOL3001 Molecular Cell Biology

SCCOR3001 Research project

Minor

SCBIO1001 Principles of biology

SCCHM1002 Chemistry 2

SCMOL2001 Biotechnology laboratory techniques

SCMOL2010 Mammalian genetics

STATISTICS

Minor

SCCOR1300 Scientific Practice

STATS1000 Statistical Methods

STATS2101 Statistics for Prediction

STATS2100 Experimental Design and Analysis
