

Enrolment Program Structure

Program Code - SC5

Program Name - Bachelor of Science

First Year			
Semester 1	Course Code	Course Name	Course Rules
	SCBIO1001	Principles of Biology	EX: BIOGC1722 & SCCOR1100 & SCBIO1010
	SCCHM1001	Chemistry 1	EX: CHMGC1011 or SCCHE1011
	SCCOR1300	Scientific Practice	EX: ENCOR1015, MATHS1000, MATGC1010
		SCENV1001 OR Elective	
Semester 2			
	SCCOR1200	Scientific Communication	EX: SCCOR1001 & SCIGC101 & SCMED1010
		Major Specialisation	
		Minor specialisation	
		SCENV1002 OR Elective	
Second Year			
Semester 1	Course Code	Course Name	Course Rules
	STATS1000	Statistical Methods	EX: SCIGO1020
		Elective	
		Major Specialisation	
		Minor Specialisation	
Semester 2			
		Elective	
		Elective	
		Major Specialisation	
		Minor Specialisation	

Third Year

Semester 1	Course Code	Course Name	Course Rules
		Elective	
		Elective	
		Major Specialisation	
		Major Specialisation	
Semester 2			
		Elective	
		Elective	
		Major Specialisation	
		Major Specialisation	

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 2019. Students who commenced prior to 2019 should contact the Program Coordinator.

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

Biochemistry

Biochemistry is a laboratory based discipline that explores the fundamental essence of life. It explores the structure and function of biological molecules, the molecular interactions occurring inside cells, and communication between cells, with a particular emphasis on changes associated with health and disease.

Jobs	Diagnostic labs, health research, education, forensic science labs
Combines well with	Biotechnology, Chemistry, Food Science, Health & Nutrition, Microbiology
Major core courses	SCBIO1001, SCCHM1002, SCBCH2001, SCBCH2002, SCMOL2001
Select 3 of the following	SCMOL3001, SCCHM3001, SCCHM3004, SCCOR3001, SCMOL3010,
Minor core courses	SCBIO1001, SCCHM1002, SCCHM2001
Select 2 of the following	SCBCH2001, SCBCH2002, SCMOL2001

Biological Science

Biological science provides students with an opportunity to combine several areas of interest and is particularly useful for students seeking to achieve a broad scientific qualification.

Jobs	Education, science communication
Combines well with	Ecology, Food Science, Health and Nutrition, Microbiology
Major core courses	SCBIO1001, SCBIO1020
Select 3 of the following	SCMED2010 & SCMED3034, SCMOL2010 & SCMOL3001, SCMIC2001 & SCMIC3003, SCBCH2002 & SCMED3010, SCVET2001 & SCVET3001, SCENV2100 & SCENV2101
Minor core courses	SCBIO1001, SCBIO1020
Select 1 of the following	SCMED2010 & SCMED3034, SCMOL2010 & SCMOL3001, SCMIC2001 & SCMIC3003, SCBCH2002 & SCMED3010, SCVET2001 & SCVET3001, SCENV2100 & SCENV2101

Behavioural Science

Jobs	
Combines well with	
Major core courses	BEHAV1001, BEHAV1002
Select 3 of the following	BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004, BEHAV3003, BEHAV3004, CHSUG3001
Minor core courses	BEHAV1001, BEHAV1002
Select 2 of the following:	BEHAV2001, BEHAV2002, BEHAV2003, BEHAV2004

Chemistry

Chemistry is an enabling science that underpins all aspects of life. It is a laboratory based discipline that covers aspects as diverse as molecular synthesis, environmental chemistry and the use of instrumental techniques to identify and quantify compounds.

Jobs	Diagnostic labs, health research, education, forensic science labs
Combines well with	Biochemistry, Biotechnology, Environmental Restoration, Food Science
Major core courses	SCCHM1001, SCCHM1002, SCBCH2001, SCCHM2001, SCCHM2002, SCCHM3001, SCCHM3004, SCCHM3003, SCCOR3001
Minor core courses	SCCHM1001, SCCHM1002
Select 2 of the following	SCBCH2001, SCCHM2001, SCCHM2002

Ecology

Ecology studies the interactions of organisms and their environment. It provides students with the opportunity to explore the natural world through class-based learning and fieldwork, providing students with the necessary skills and knowledge to pursue a career in the environmental field. The conservation and management of species and ecosystems is a common thread linking all courses.

Jobs	Conservation science & management, environmental planner, consultants
Combines well with	Environmental Restoration, Biological Science, Environmental Geoscience
Major course courses	SCBIO1001, SCENV1002, SCENV2100, SCENV2200, SCENV3110, SCENV3203, SCENV3912, SCCOR3001, SCENV2202, SCENV3800
Minor core courses	SCBIO1001, SCENV1002, SCENV2100, SCENV2200, SCENV2202

Molecular Biology

Jobs

Combines well with

Major course courses SCBIO1001, SCCHM1002, SCBCH2001, SCMIC2001, SCMOL2001

Select 3 of the following SCMIC3002, SCMOL3010, SCMOL3001, SCCOR3001

Minor core courses SCBIO1001 SCCHM1002, SCBCH2001, SCMOL2001

Exercise Science

Jobs

Combines well with

Major course courses EXSCI1702, EXSCI1703, EXSCI2171, EXSCI2173, EXSCI2175

Select 3 of the following EXSCI3172, EXSCI3171, EXSCI3002, EXSCI3173

Minor core courses EXSCI1702, EXSCI1703

Select 2 of the following: EXSCI2171, EXSCI2173, EXSCI2175

Environmental Restoration

With a focus on land and water resources, this sequence tackles some of the most pressing issues in ensuring sustainability of resources for future generations. Students will explore processes in the restoration and remediation of degraded land and water systems that will help shape our future.

Jobs Land & water manager, landscape restoration, mine site rehabilitation

Combines well with Ecology, Earth Materials, Mineral Processing

Major course courses SCENV1001, SCSUS1500, SCENV2400, SCENV3120

Select 4 of the following SCCOR3001, SCCHM2002, SCENV3501, SCENV3912, SCGEO2106

Minor core courses SCSUS1500, SCCHM2002, SCENV2400 SCENV3120

Food Science

Food Science explores the science behind food to ensure food is safe, tasty, nutritious, and meets the needs and desires of consumers.

Jobs	Food manufacturing, quality assurance, quality control, product development
Combines well with	Biochemistry, Biotechnology, Health and Nutrition, Microbiology
Major course courses	SCCHM1002, SCFST1022, SCMIC2001, SCCHM2001, SCFST2023, SCMIC3002, SCFST3026, SCCHM3003
Minor core courses	SCCHM1002, SCFST1002
Select 2 of the following	SCMIC2001, SCCHM2001, SCFST2023

Health and Nutrition

Health and Nutrition provides students with an opportunity to develop an enhanced understanding of the key aspects that impact on our health, in both positive and detrimental ways.

Jobs	Nutritionist, education, science communication
Combines well with	Biochemistry, Biotechnology, Food Science, Microbiology
Major course courses	SCBIO1001, SCCHM1001, SCMIC2001, SCBCH2002, SCMED2011, SCBCH3001, SCMIC3002, SCMIC3003, SCCOR3010, HEALT3006, SCBCH1001, SCBIO1020
Minor core courses	SCBIO1001, SCCHM1001, SCBCH2002, SCMED2011, SCBCH1001, SCBIO1020

Information Technology

Jobs	
Combines well with	
Minor core courses	ITECH1100, ITECH1103, ITECH2003, ITECH2004

Mathematics

Jobs	
Combines well with	
Major course courses	MATHS1001, MATHS1005, MATHS2016
Select 2 of the following	MATHS2003, MATHS2009 MATHS2012

 MATHS3001

Select 2 of the following MATHS3007, MATHS3004, MATHS3002, SCCOR3001

**Minor core courses
(Calculus Stream)** MATHS1001, MATHS2016, MATHS1005

Select 1 of the following MATHS2003, MATHS2009, MATHS2012, MATHS3001

**Minor core courses
(Non-Calculus Stream)** MATHS1000 or SCCOR1300, STATS1000

Select 2 of the following MATHS2003, MATHS2009, MATHS2012

Microbiology

Jobs

Combines well with

Major course courses SCBIO1001, SCCHM1001, SCMIC2001, SCMOL2001, SCMIC3002, SCMIC3003, SCMOL3010, SCCOR3001, SCMOL3020

Minor core courses SCBIO1001, SCCHM1001, SCMIC2001, SCMOL2001

Statistics (minor sequence only)

Food Science explores the science behind food to ensure food is safe, tasty, nutritious, and meets the needs and desires of consumers.

Jobs

Combines well with

Minor core courses SCCOR1300, STATS1000, STATS2101, STATS2100
