



Bachelor of Environmental Science (Domestic students)

Program code

1543

Commencing in

For Continuing Students Only

Available at

Gold Coast Campus

Duration

3 years full-time

6 years part-time

Credit points

240

Degree requirements: Students who started Trimester 3 - 2020

For Domestic and those International students not required to complete the English Language Enhancement course

For the award of *Bachelor of Environment Science (BEnvSc)*, you must successfully complete 240 credit points, made up of the core courses AND

- 60 credit points for a major and 80 credit points of free-choice electives; **or**
- 60 credit points for a major, 60 credit points for a second major and 20 credit points of free-choice electives.

Other program requirements

You must successfully complete:

- no more than 100 credit points of Level 1 courses (the first digit of a course code denotes the level);
- at least 60 credit points of Level 3 courses or higher.

This degree may be awarded **with Distinction** where a student achieves a minimum program GPA of 6.5 with no failed courses. The words "This award was achieved with Distinction" will be recorded on the testamur.

Australian Qualifications Framework (AQF) Level and Type

The **Australian Qualifications Framework (AQF)** is the national policy for regulated qualifications in Australian education and training. This qualification is accredited as an AQF Level 7 - Bachelor Degree.

English Language Enhancement

Domestic students enrolled in this program whose first language is not English may complete the following **English Language Enhancement Course** as an elective.

- **5903LHS Language and Communication for Sciences**

Students whose first language is English are not permitted to undertake this course.

Program learning outcomes

Program learning outcomes

Program Learning Outcomes communicate to the community the value of the Griffith educational experience as benchmarked against national qualification standards.

Program Learning Outcomes for this award describe the knowledge, skills and the application of knowledge and skills you will acquire through studying the Griffith program of your choice.

Course list: Students starting Trimester 3 - 2020

Course offering information in program structures is a guide only. Please check the actual offering information in the Course Catalogue.

Note: Students must check the prerequisite and incompatible requirements before selecting any course within this program.

English Language Enhancement course

Students required to undertake the English Language Enhancement course must complete 5903LHS in their first trimester of study.

The English Language Enhancement course is to be taken in place of a Free-choice elective in your program.

Trimester	Course code	Requirement	Course title	CP
Tri 1,2 or 3	5903LHS	English Enhancement	Language and Communication for Sciences	10

Year 1

You must select **80 credit points** from the following Level 1 Science courses (see Note 1):

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Listed Elective	Quantitative Reasoning (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major)	10
Tri 1,3	1023SCG	Listed Elective	Chemistry I (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major)	10
Tri 1,3	1041SCG	Listed Elective	Biological Systems (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major, Urban Environments major)	10
Tri 1,3	1043SCG	Listed Elective	Introduction to Environmental Sustainability (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major)	10
Tri 2,3	1014SCG	Listed Elective	Statistics (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major)	10
Tri 1	1037ENV	Listed Elective	Understanding Australian Cities (Urban Environments major)	10
Tri 1,3	1201SCG	Listed Elective	Linear Algebra	10
Tri 1	1202SCG	Listed Elective	Calculus I	10
Tri 2	1014NSC	Listed Elective	Fundamentals of Biochemistry	10
Tri 1	1001NSC	Listed Elective	Human Biology: from Cells to Systems	10
Tri 1,2	1001EHR	Listed Elective	Work and Employability (not offered from 2021)	10
			OR	
Tri 1,3	1007GBS	Listed Elective	The Future of Work	10
Tri 1,2 or 3	1003MKT	Listed Elective	Introduction to Marketing (not offered from 2021)	10
			OR	
Tri 1,3	1008GBS	Listed Elective	Business Decision-Making	10
Tri 1,2 or 3	1017SCG	Listed Elective	Foundation Mathematics	10
Tri 2	1044SCG	Listed Elective	Earth Systems (Ecology and Conservation major, Environmental Management major, Soil and Water Science major, Urban Environments major)	10
Tri 2	1444ENV	Listed Elective	Global Environmental Challenges (Environmental Management major, Urban Environments major) (not offered from 2021)	10
			OR	
Tri 2	1024ENG	Listed Elective	Intro to Digital and Spatial Analysis	10
Tri 2	1042SCG	Listed Elective	Genetics and Evolutionary Biology	10
Tri 2	1024SCG	Listed Elective	Chemistry II (Soil and Water Science major)	10

Years 2 and 3

You must complete one of the following options:

Trimester	Course code	Requirement	Course title	CP
Tri 1,2 or 3			Major	60
			AND	
Tri 1,2 or 3			Free-choice electives	80
			OR	
Tri 1,2 or 3			Major	60
			AND	
Tri 1,2 or 3			Second Major	60
			AND	
Tri 1,2 or 3			Free-choice electives	20

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 2	3892ENV	Core to Program	Environmental Capstone	20
			OR	
Tri 1,2 or 3	3900ESC	Core to Program	Work Integrated Learning Placement	20
			OR	
Tri 1,2	3992NSC_Y1	Core to Program	Science Capstone	10
			AND	
Tri 1,2	3992NSC_Y2	Core to Program	Science Capstone	10

Majors (4 available)

Ecology and Conservation

You must complete the following foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I	10
Tri 1,3	1041SCG	Recommended Prereq	Biological Systems	10
Tri 1,3	1043SCG	Recommended Prereq	Introduction to Environmental Sustainability	10
Tri 2,3	1014SCG	Recommended Prereq	Statistics	10
Tri 2	1044SCG	Recommended Prereq	Earth Systems	10
Tri 2	1042SCG	Recommended Prereq	Genetics and Evolutionary Biology	10

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2291ENV	Core to Major	Applied Data Science	10
Tri 2	2702ENV	Core to Major	Botany	10
Tri 2	2603ENV	Core to Major	Ecology (not offered from 2023)	10
			OR	
Tri 2	2051ENV	Core to Major	Ecology	10
Tri 1	2303ENV	Core to Major	Zoology	10
Tri 1	3606ENV	Core to Major	Conservation Biology	10
Tri 2	3308ENV	Core to Major	Emerging Topics in Conservation	10

Environmental Management

You must complete the following foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I	10
Tri 1,3	1041SCG	Recommended Prereq	Biological Systems	10
Tri 1,3	1043SCG	Recommended Prereq	Introduction to Environmental Sustainability	10
Tri 2,3	1014SCG	Recommended Prereq	Statistics	10
Tri 2	1044SCG	Recommended Prereq	Earth Systems	10
Tri 2	1444ENV	Recommended Prereq	Global Environmental Challenges (not offered from 2021)	10
			OR	
Tri 2	1024ENG	Recommended Prereq	Intro to Digital and Spatial Analysis	10

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2416ENV	Core to Major	Environmental Anthropology	10
Tri 1,3	2107ENV	Core to Major	Introduction to Geographic Information Systems	10
Tri 2	2221ENV	Core to Major	Environmental Politics and Policy (not offered in 2020, 2021, 2022 and 2023)	10
			OR	
Tri 1,3	2004GIR	Core to Major	The Government Business Nexus: Intervening, Lobbying and Responding	10
			OR	
Tri 2	2313AFE	Core to Major	Environmental and Energy Economics	10
Tri 2	2281ENV	Core to Major	Economics and the Environment	10
Tri 1	3307ENV	Core to Major	Environmental and Social Futures (not offered in 2021)	10
			OR	
Tri 1,3	4118ENV	Core to Major	Policymaking and Planning for Climate Change	10
Tri 2	3306ENV	Core to Major	Environmental Management	10

Soil and Water Science

You must complete the following foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I	10
Tri 1,3	1041SCG	Recommended Prereq	Biological Systems	10
Tri 1,3	1043SCG	Recommended Prereq	Introduction to Environmental Sustainability	10
Tri 2,3	1014SCG	Recommended Prereq	Statistics	10
Tri 2	1044SCG	Recommended Prereq	Earth Systems	10
Tri 2	1024SCG	Recommended Prereq	Chemistry II	10

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2291ENV	Core to Major	Applied Data Science	10
Tri 1	2203ENV	Core to Major	Environmental Chemistry and Monitoring	10
Tri 2	2010NSC	Core to Major	Applied Microbiology (not offered from 2022)	10
			OR	
Tri 1	2202ENG	Core to Major	Environmental Microbiology and Ecology (Gold Coast)	10
			OR	
Tri 2	3701ENV	Core to Major	Microbial Ecology and Biogeochemistry (Not offered from 2021)	10
Tri 2,3	2212ENV	Core to Major	Ecotox and Impact Assessment (offered online)	10
Tri 1	3201ENV	Core to Major	Aquatic Chemistry and Pollution	10
Tri 2	3202ENV	Core to Major	Advanced Analytical Chemistry	10

Urban Environments

You must complete the following foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I	10
Tri 1,3	1041SCG	Recommended Prereq	Biological Systems	10
Tri 1,3	1043SCG	Recommended Prereq	Introduction to Environmental Sustainability	10
Tri 1	1037ENV	Recommended Prereq	Understanding Australian Cities	10
Tri 2,3	1014SCG	Recommended Prereq	Statistics	10
Tri 2	1044SCG	Recommended Prereq	Earth Systems	10

You must complete 40 credit points from the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	2107ENV	Elective to Major	Introduction to Geographic Information Systems	10
Tri 1	2315ENV	Elective to Major	Urban Ecology and Biodiversity	10
Tri 2	2414ENV	Elective to Major	Urban Environmental Systems	10
Tri 2,3	2212ENV	Elective to Major	Ecotox and Impact Assessment (offered online)	10
Tri 2	2304ENV	Elective to Major	Rivers and Catchments (Nathan)	10

You must complete the following courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	4118ENV	Core to Major	Policymaking and Planning for Climate Change	10
Tri 2	3418ENV	Core to Major	Spatial Modelling (not offered from 2021)	10
			OR	
Tri 2	3033ESC	Core to Major	Environmental Data Analytics	10

Electives (1 available)

Free-choice electives

You may select free-choice electives from the list below or any **Undergraduate free-choice elective/s** offered across the University provided pre-requisites are met. If you require guidance please liaise with your Program Director.

Trimester	Course code	Requirement	Course title	CP
Tri 1	2003NSC	Free-choice Elective	Metabolism	10
Tri 1	2005NSC	Free-choice Elective	Protein Science	10
Tri 1	2315ENV	Free-choice Elective	Urban Ecology and Biodiversity	10
Tri 1	2007NSC	Free-choice Elective	Human Anatomy and Physiology 1	10
Tri 1	2008MSC	Free-choice Elective	Structural Biochemistry	10
Tri 1	2008NSC	Free-choice Elective	General Microbiology	10
Tri 1	2071ENV	Free-choice Elective	Soils and Geomorphology	10
Tri 1	2101NSC	Free-choice Elective	Inorganic Chemistry	10
			courseLineOperator	
Tri 1	2208ENV	Free-choice Elective	Inorganic Chemistry	10
Tri 1	2103NSC	Free-choice Elective	Organic Chemistry	10
			courseLineOperator	
Tri 1	2014MSC	Free-choice Elective	Organic Chemistry	10
Tri 1,3	2107ENV	Free-choice Elective	Introduction to Geographic Information Systems	10
Tri 2	2201NSC	Free-choice Elective	Linear Algebra and Applications	10
Tri 1	2205NSC	Free-choice Elective	Calculus II	10
Tri 1	2291ENV	Free-choice Elective	Applied Data Science	10
Tri 1	2416ENV	Free-choice Elective	Environmental Anthropology	10
Tri 1	2804ENV	Free-choice Elective	Coastal Environments	10
Tri 1	2013NSC_Y1	Free-choice Elective	Biotechniques Laboratory (not offered from 2022)	5
			courseLineOperator	

Trimester	Course code	Requirement	Course title	CP
Tri 2	2013NSC_Y2	Free-choice Elective	Biotechniques Laboratory (not offered from 2022)	5
			courseLineOperator	
Tri 2	2013NSC	Free-choice Elective	Biotechniques Laboratory (Nathan)	10
			courseLineOperator	
Tri 2	2018NSC	Free-choice Elective	Biosciences Laboratory Skills	10
Tri 1	2203ENV	Free-choice Elective	Environmental Chemistry and Monitoring	10
			courseLineOperator	
Tri 2	2209ENV	Free-choice Elective	Environmental Chemistry	10
Tri 1	2303ENV	Free-choice Elective	Zoology	10
			courseLineOperator	
Tri 2	2251ENV	Free-choice Elective	Animal Diversity (not offered from 2021)	10
Tri 1	2261ENV	Free-choice Elective	Plant Diversity (not offered from 2021)	10
			courseLineOperator	
Tri 2	2702ENV	Free-choice Elective	Botany	10
Tri 1,2	2302NSC	Free-choice Elective	Modern Physics Laboratory	10
Tri 1,2	2304NSC	Free-choice Elective	Statistical and Solid State II (not offered from 2021)	10
			courseLineOperator	
Tri 2	2307ESC	Free-choice Elective	Analytical and Statistical Mechanics	10
Tri 2	2002NSC	Free-choice Elective	Human Anatomy and Physiology 2	10
Tri 2	2603ENV	Free-choice Elective	Ecology (not offered from 2023)	10
			courseLineOperator	
Tri 2	2051ENV	Free-choice Elective	Ecology	10
Tri 2	2414ENV	Free-choice Elective	Urban Environmental Systems	10
Tri 2	2012NSC	Free-choice Elective	Molecular Biology	10
Tri 2	2102NSC	Free-choice Elective	Spectroscopic and Molecular Analysis	10
Tri 2	2106NSC	Free-choice Elective	Physical and Analytical Chemistry	10
Tri 2	2202ENV	Free-choice Elective	Physical and Analytical Chemistry	10
Tri 1	2202NSC	Free-choice Elective	Numerical Methods	10
Tri 2	2204NSC	Free-choice Elective	Introduction to Mathematical Modelling	10

Trimester	Course code	Requirement	Course title	CP
Tri 2	2221ENV	Free-choice Elective	Environmental Politics and Policy (not offered in 2020, 2021, 2022 and 2023)	10
Tri 2	2281ENV	Free-choice Elective	Economics and the Environment	10
Tri 2	2301NSC	Free-choice Elective	Electromagnetism and Optics	10
Tri 2	2304ENV	Free-choice Elective	Rivers and Catchments	10
Tri 1	2305NSC	Free-choice Elective	Quantum Mechanics, Relativity and Elementary Particles	10
Tri 2,3	2305ENV	Free-choice Elective	Marine Megafauna and Planetary Health	10
Tri 2,3	2212ENV	Free-choice Elective	Ecotox and Impact Assessment (offered online)	10
Tri 1,2	3001NSC	Free-choice Elective	Molecular Cell Biology	10
			courseLineOperator	
Tri 1	3016MSC	Free-choice Elective	Macromolecular and Cellular Biochemistry	10
Tri 1	3009NSC	Free-choice Elective	Biomedical Sciences Laboratory	10
Tri 1	3103NSC	Free-choice Elective	NMR and Structural Chemistry (not offered from 2021)	10
Tri 1	3225ENV	Free-choice Elective	NMR in Biological Systems	10
Tri 1	3105NSC	Free-choice Elective	Advanced Organic Chemistry	10
Tri 1	3201ENV	Free-choice Elective	Aquatic Chemistry and Pollution	10
			courseLineOperator	
Tri 1	3431ENV	Free-choice Elective	Water Pollution Chemistry	10
Tri 1	3201NSC	Free-choice Elective	Advanced Differential Equations and Modelling	10
Tri 1	3203NSC	Free-choice Elective	Complex Analysis and Applications	10
Tri 1	3241ENV	Free-choice Elective	Quantitative Ecology (not offered from 2021)	10
Tri 1	3301NSC	Free-choice Elective	Quantum Physics III	10
Tri 2	3304NSC	Free-choice Elective	Physics Laboratory III	10
Tri 1	3307ENV	Free-choice Elective	Environmental and Social Futures (not offered in 2021)	10
Tri 1	3606ENV	Free-choice Elective	Conservation Biology	10
Tri 1	3801ENV	Free-choice Elective	Estuarine Ecology	10
Tri 2	3303NSC	Free-choice Elective	Physics of Solids and Nanoscale Structures	10
			courseLineOperator	

Trimester	Course code	Requirement	Course title	CP
Tri 2	3309ESC	Free-choice Elective	Condensed Matter Physics	10
Tri 2	3004NSC	Free-choice Elective	Biomolecular Sciences Lab (not offered from 2019)	10
			courseLineOperator	
Tri 2	3012MSC	Free-choice Elective	Clinical Biochemistry (offered at Gold Coast)	10
			courseLineOperator	
Tri 1	3009NSC	Free-choice Elective	Biomedical Sciences Laboratory (offered at Nathan)	10
Tri 2	3014NSC	Free-choice Elective	Advanced Physiology	10
Tri 2	3018NSC	Free-choice Elective	Microbiology Laboratory	10
Tri 2	3020NSC	Free-choice Elective	Techniques in Molecular Microbiology	10
Tri 2	3102NSC	Free-choice Elective	Advanced Analytical Chemistry	10
			courseLineOperator	
Tri 2	3202ENV	Free-choice Elective	Advanced Analytical Chemistry	10
Tri 2	3119MED	Free-choice Elective	Environmental Toxicology and Risk Assessment	10
Tri 2	3306ENV	Free-choice Elective	Environmental Management	10
Tri 2	3418ENV	Free-choice Elective	Spatial Modelling (not offered from 2021)	10
Tri 2	3308ENV	Free-choice Elective	Emerging Topics in Conservation	10
Tri 2	3332ENV	Free-choice Elective	Marine Conservation and Resource Management	10
Tri 2	3441ENV	Free-choice Elective	Land Degradation and Catchment Management	10
Tri 2	3701ENV	Free-choice Elective	Microbial Ecology and Biogeochemistry (Not offered from 2021)	10
Tri 1,2 or 3	3103ENV	Free-choice Elective	Industry Placement (not offered from 2021)	10
Tri 1,2 or 3	3002LFC	Free-choice Elective	Community Internship and Partnerships for SDGs	10
Tri 1,2 or 3	3900ESC	Free-choice Elective	Work Integrated Learning Placement	20
Tri 1,2 or 3	3911ESC	Free-choice Elective	Work Integrated Learning Special Topic	10
Tri 1,2 or 3	3922ESC	Free-choice Elective	Research Special Topic	10
Tri 1,3	4118ENV	Free-choice Elective	Polycymaking and Planning for Climate Change	10