



## Bachelor of Environmental Science (Domestic students)

Program code	Entry requirements	Prerequisites
1547	65.00	NIL
<b>Available at</b> Gold Coast Campus, Nathan Campus	ATAR/RANK 2024 ( <a href="#">more</a> )	<b>Assumed knowledge</b> Any General or Applied English subject (Units 3&4, C)
<b>Duration</b> 3 years full-time 6 years part-time	<b>Commencing in</b> Trimester 1, Trimester 2 and Trimester 3	General Mathematics or Mathematical Methods (Units 3&4, C)
<b>Credit points</b> 240		
<b>Indicative fee</b> \$9,000.00* per year ( <a href="#">more</a> ) * 2024 indicative annual CSP fee		

### Degree requirements: Students who started Trimester 2 - 2024

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 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 2 - 2024**

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 complete the following 70 credit points of Level 1 courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Core to Program	Quantitative Reasoning (all majors)	10
Tri 1,3	1021SCG	Core to Program	Chemistry 1A (Nathan) (all majors)	10
			<b>OR</b>	
Tri 1,3	1023SCG	Core to Program	Chemistry I (Gold Coast) (all majors)	10
Tri 1,3	1041SCG	Core to Program	Biological Systems (all majors)	10
Tri 1,3	1043SCG	Core to Program	Introduction to Environmental Sustainability (all majors)	10
Tri 2,3	1014SCG	Core to Program	Statistics (all majors)	10
Tri 2	1024ENG	Core to Program	Intro to Digital and Spatial Analysis (all majors)	10
Tri 2	1044SCG	Core to Program	Earth Systems (all majors)	10

Students completing the Ecology and Conservation, Environmental Chemistry or Urban Environments majors must select 10 credit points from the following Level 1 courses as specified for the major:

Trimester	Course code	Requirement	Course title	CP
Tri 1	1037ENV	Listed Elective	Understanding Australian Cities (Urban Environments major)	10
Tri 2	1042SCG	Listed Elective	Genetics and Evolutionary Biology (Ecology and Conservation major)	10
Tri 2	1022SCG	Listed Elective	Chemistry 1B (Nathan) (Environmental Chemistry major)	10
			<b>OR</b>	
Tri 2	1024SCG	Listed Elective	Chemistry II (Gold Coast) (Environmental Chemistry major)	10

Students completing the Soil and Water Science major must select 10 credit points from the following Level 1 elective courses, or from those listed above for the other majors:

Trimester	Course code	Requirement	Course title	CP
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 1,3	1007GBS	Listed Elective	The Future of Work	10
Tri 1,3	1008GBS	Listed Elective	Business Decision-Making	10
Tri 1,2,3	1017SCG	Listed Elective	Foundation Mathematics (see Note 1)	10
Tri 1	1088LHS	Listed Elective	First Peoples	10

Note 1: Students entering the program WITHOUT the assumed knowledge of Senior Secondary Syllabus of Mathematical Methods (or equivalent) are recommended to complete 1017SCG Foundation Mathematics in their first trimester of study. This will be considered a first year elective course.

### Years 2 and 3

You must complete 80 credit points including 60 credit points of core courses for your major and 20 credit points of free choice electives.

Trimester	Course code	Requirement	Course title	CP
Tri 1,2 or 3			Major	60
			<b>AND</b>	
Tri 1,2 or 3			Free-choice electives	20

You must complete the following 80 credit points of core courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2291ENV	Core to Program	Applied Data Science	10
Tri 1,3	2107ENV	Core to Program	Introduction to Geographic Information Systems	10
Tri 2	2281ENV	Core to Program	Economics and the Environment	10
Tri 1	3307ENV	Core to Program	Environmental and Social Futures	10
Tri 2	3033ESC	Core to Program	Environmental Data Analytics	10
			<b>OR</b>	
Tri 1	4030ICT	Core to Program	Big Data Analytics and Social Media (not offered from 2023)	10
			<b>OR</b>	
Tri 1,2,3	3032ICT	Core to Program	Big Data Analytics and Social Media	10
			<b>OR</b>	
Tri 2	3004ENG	Core to Program	Project Management Principles	10
Tri 2	3306ENV	Core to Program	Environmental Management	10
Tri 2	3892ENV	Core to Program	Environmental Capstone	20
			<b>OR</b>	
Tri 1,2 or 3	3900ESC	Core to Program	Work Integrated Learning Placement	20
			<b>OR</b>	
Tri 1,2	3992NSC_Y1	Core to Program	Science Capstone	10
			<b>AND</b>	
Tri 1,2	3992NSC_Y2	Core to Program	Science Capstone	10

### Majors (4 available)

#### Ecology and Conservation (Nathan and Gold Coast)

You must complete the following 80 credit points of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1021SCG	Recommended Prereq	Chemistry 1A (Nathan)	10
			<b>OR</b>	
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I (Gold Coast)	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	1024ENG	Recommended Prereq	Intro to Digital and Spatial Analysis	10
Tri 2	1044SCG	Recommended Prereq	Earth Systems	10
Tri 2	1042SCG	Recommended Prereq	Genetics and Evolutionary Biology	10

You must complete the following 60 credit points of courses for your major:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2211ESC	Core to Major	Ecological Monitoring and Assessment	10
Tri 1	2303ENV	Core to Major	Zoology	10
Tri 2	2051ENV	Core to Major	Ecology	10
Tri 2	2702ENV	Core to Major	Botany	10
Tri 1	3606ENV	Core to Major	Conservation Biology	10
Tri 2	3308ENV	Core to Major	Emerging Topics in Conservation	10

## Environmental Chemistry (Nathan and Gold Coast)

You must complete the following 80 credit points of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1021SCG	Recommended Prereq	Chemistry 1A (Nathan)	10
			<b>OR</b>	
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I (Gold Coast)	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	1022SCG	Recommended Prereq	Chemistry 1B (Nathan)	10
			<b>OR</b>	
Tri 2	1024SCG	Recommended Prereq	Chemistry II (Gold Coast)	10
Tri 2	1024ENG	Recommended Prereq	Intro to Digital and Spatial Analysis	10

You must complete the following 60 credit points of courses for your major:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2103NSC	Core to Major	Organic Chemistry (Nathan)	10
			<b>OR</b>	
Tri 1	2014MSC	Core to Major	Organic Chemistry (Gold Coast)	10
Tri 2	2209ENV	Core to Major	Environmental Chemistry (Nathan)	10
			<b>OR</b>	
Tri 1	2203ENV	Core to Major	Environmental Chemistry and Monitoring (Gold Coast)	10
Tri 2	2102NSC	Core to Major	Spectroscopic and Molecular Analysis	10
Tri 2	2106NSC	Core to Major	Physical and Analytical Chemistry (Nathan)	10
			<b>OR</b>	
Tri 2	2202ENV	Core to Major	Physical and Analytical Chemistry (Gold Coast)	10
Tri 1	3431ENV	Core to Major	Water Pollution Chemistry (Nathan)	10
			<b>OR</b>	
Tri 1	3201ENV	Core to Major	Aquatic Chemistry and Pollution (Gold Coast)	10
Tri 2	3102NSC	Core to Major	Advanced Analytical Chemistry (Nathan)	10
			<b>OR</b>	
Tri 2	3202ENV	Core to Major	Advanced Analytical Chemistry (Gold Coast)	10

## Soil and Water Science (Nathan only)

**This major is only offered on the Nathan campus.**

You must complete the following 70 credit points of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1021SCG	Recommended Prereq	Chemistry 1A (Nathan)	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	1024ENG	Recommended Prereq	Intro to Digital and Spatial Analysis	10

You must complete the following 60 credit points of courses for your major:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2071ENV	Core to Major	Soils and Geomorphology (Nathan)	10
Tri 2	2209ENV	Core to Major	Environmental Chemistry	10
Tri 2,3	2212ENV	Core to Major	Ecotox and Impact Assessment (online)	10
Tri 2	2304ENV	Core to Major	Rivers and Catchments (Nathan)	10
Tri 1	3431ENV	Core to Major	Water Pollution Chemistry (Nathan)	10
Tri 2	3441ENV	Core to Major	Land Degradation and Catchment Management (Nathan)	10

### Urban Environments (Nathan and Gold Coast)

You must complete the following 80 credit points of foundation courses:

Trimester	Course code	Requirement	Course title	CP
Tri 1,3	1015SCG	Recommended Prereq	Quantitative Reasoning	10
Tri 1,3	1021SCG	Recommended Prereq	Chemistry 1A (Nathan)	10
			<b>OR</b>	
Tri 1,3	1023SCG	Recommended Prereq	Chemistry I (Gold Coast)	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	1044SCG	Recommended Prereq	Earth Systems	10
Tri 2,3	1014SCG	Recommended Prereq	Statistics	10
Tri 2	1024ENG	Recommended Prereq	Intro to Digital and Spatial Analysis	10

You must complete the following 60 credit points of courses for your major:

Trimester	Course code	Requirement	Course title	CP
Tri 1	2416ENV	Core to Major	Environmental Anthropology	10
Tri 1	2315ENV	Core to Major	Urban Ecology and Biodiversity	10
Tri 2	2414ENV	Core to Major	Urban Environmental Systems	10
Tri 2,3	2212ENV	Core to Major	Ecotox and Impact Assessment (online)	10
Tri 1,3	4118ENV	Core to Major	Policymaking and Planning for Climate Change	10
Tri 1	4047ENV	Core to Major	Public Involvement and Community Development	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 (Nathan)	10
Tri 1	2208ENV	Free-choice Elective	Inorganic Chemistry (Gold Coast)	10
Tri 1	2103NSC	Free-choice Elective	Organic Chemistry (Nathan)	10
Tri 1	2014MSC	Free-choice Elective	Organic Chemistry (Gold Coast)	10
Tri 2	2201NSC	Free-choice Elective	Linear Algebra and Applications	10
Tri 1	2205NSC	Free-choice Elective	Calculus II	10
Tri 1	2416ENV	Free-choice Elective	Environmental Anthropology	10
Tri 1	2804ENV	Free-choice Elective	Coastal Environments	10
Tri 2	2013NSC	Free-choice Elective	Biotechniques Laboratory (Nathan)	10
			<b>courseLineOperator</b>	
Tri 2	2018NSC	Free-choice Elective	Biosciences Laboratory Skills (Gold Coast)	10
Tri 1	2203ENV	Free-choice Elective	Environmental Chemistry and Monitoring	10
			<b>courseLineOperator</b>	
Tri 2	2209ENV	Free-choice Elective	Environmental Chemistry	10
Tri 1	2303ENV	Free-choice Elective	Zoology	10
Tri 2	2702ENV	Free-choice Elective	Botany	10
Tri 1,2	2302NSC	Free-choice Elective	Modern Physics Laboratory	10
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	2051ENV	Free-choice Elective	Ecology	10

Trimester	Course code	Requirement	Course title	CP
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
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	2212ENV	Free-choice Elective	Ecotox and Impact Assessment (offered online)	10
Tri 1,2	3001NSC	Free-choice Elective	Molecular Cell Biology	10
			<b>courseLineOperator</b>	
Tri 1	3016MSC	Free-choice Elective	Macromolecular and Cellular Biochemistry	10
Tri 1	3009NSC	Free-choice Elective	Biomedical Sciences Laboratory	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
			<b>courseLineOperator</b>	
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	3301NSC	Free-choice Elective	Quantum Physics III	10
Tri 2	3304NSC	Free-choice Elective	Physics Laboratory III	10
Tri 1	3606ENV	Free-choice Elective	Conservation Biology	10
Tri 2	3309ESC	Free-choice Elective	Condensed Matter Physics	10
Tri 2	3004NSC	Free-choice Elective	Biomolecular Sciences Lab (not offered from 2019)	10



Trimester	Course code	Requirement	Course title	CP
			<b>courseLineOperator</b>	
Tri 2	3012MSC	Free-choice Elective	Clinical Biochemistry (offered at Gold Coast)	10
			<b>courseLineOperator</b>	
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
			<b>courseLineOperator</b>	
Tri 2	3202ENV	Free-choice Elective	Advanced Analytical Chemistry	10
Tri 2	3119MED	Free-choice Elective	Environmental Toxicology and Risk Assessment	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 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	Policymaking and Planning for Climate Change	10