



Bachelor of Environmental Science (International students)

| Program code | Entry requirements | Prerequisites |
|---|--|---|
| 1547 | 6.5 | NIL |
| Available at Gold Coast Campus, Nathan Campus | IELTS (Academic) (more) | Assumed knowledge Any General or Applied English subject (Units 3&4, C) |
| Duration 3 years full-time | CRICOS code 090584C | General Mathematics or Mathematical Methods (Units 3&4, C) |
| Credit points 240 | Commencing in Trimester 1, Trimester 2 and Trimester 3 | Apply Now |
| Indicative fee \$39,000.00* per year (more) * 2024 indicative annual 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.

For International students 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

- 10 credit points for the English Language Enhancement course (5903LHS); AND
- 60 credit points for a major and 10 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

All undergraduate International students are required to complete an **English Language Enhancement Course** unless specific criteria are met as specified in Section 5.0 [Qualifications Procedure](#).

The following course must be completed in the first trimester of study:

- [5903LHS Language and Communication for Sciences](#)

Advice regarding the requirement to complete the English Language Enhancement Course is available via the *myGriffith* portal (in the To Do List).

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 |
| | | | OR | |
| 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 |
| | | | OR | |
| 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 |
| | | | AND | |
| 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 |
| | | | OR | |
| Tri 1 | 4030ICT | Core to Program | Big Data Analytics and Social Media (not offered from 2023) | 10 |
| | | | OR | |
| Tri 1,2,3 | 3032ICT | Core to Program | Big Data Analytics and Social Media | 10 |
| | | | OR | |
| 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 |
| | | | 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 (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 |
| | | | OR | |
| 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 |
| | | | OR | |
| 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 |
| | | | OR | |
| 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 |
| | | | OR | |
| Tri 1 | 2014MSC | Core to Major | Organic Chemistry (Gold Coast) | 10 |
| Tri 2 | 2209ENV | Core to Major | Environmental Chemistry (Nathan) | 10 |
| | | | OR | |
| 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 |
| | | | OR | |
| Tri 2 | 2202ENV | Core to Major | Physical and Analytical Chemistry (Gold Coast) | 10 |
| Tri 1 | 3431ENV | Core to Major | Water Pollution Chemistry (Nathan) | 10 |
| | | | OR | |
| Tri 1 | 3201ENV | Core to Major | Aquatic Chemistry and Pollution (Gold Coast) | 10 |
| Tri 2 | 3102NSC | Core to Major | Advanced Analytical Chemistry (Nathan) | 10 |
| | | | OR | |
| 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 |
| | | | OR | |
| 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 |
| | | | courseLineOperator | |
| Tri 2 | 2018NSC | Free-choice Elective | Biosciences Laboratory Skills (Gold Coast) | 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 |
| 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 |
| | | | courseLineOperator | |
| 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 |
| | | | 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 | 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 |
|--------------|-------------|----------------------|--|----|
| | | | 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 | 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 |