

Faculty of Science

Member Units

School of Biological Sciences
Department of Chemistry
School of Earth and Environmental Sciences

Courses Offered

Doctor of Philosophy

Biological Sciences
Chemistry
Environmental Science
Geography
Geology
Physics*

Master of Science – Research

Biological Sciences
Biotechnology
Chemistry
Geography
Geology
Medicinal Chemistry
Physics*

Master of Environmental Science – Research

Master of Environmental Science Advanced

Master of Arts (Geography)

Master of Science

Biotechnology
Environmental Biology
Chemistry
Medicinal Chemistry
Medical Radiation Physics*
Geography or Geology

Master of Environmental Science

Graduate Diploma in Science

Biological Sciences
Chemistry
Geography
Geology
Physics*

*Refer to the Faculty of Engineering

For tuition fee information please see the following:

Domestic - www.uow.edu.au/student/finances/studentcontributions.html

International - www.uow.edu.au/prospective/international/fees/

This publication contains information which is current at December 2005. The University takes all due care to ensure the accuracy and currency of this information, but reserves the right to vary any information contained in this publication without notice. In particular, subject availability may change after the publication of the Handbook. For up-to-date subject information, students are advised to consult the online subject descriptions prior to enrolment, available at www.uow.edu.au/handbook/.

Doctor of Philosophy

| | |
|---------------------------|----------------------------------|
| Testamur Title of Degree: | Doctor of Philosophy |
| Abbreviation: | PhD |
| Home Faculty: | Science |
| Duration: | 3 years or part-time equivalent |
| Total Credit Points: | 48 cps per year |
| Starting Session(s): | Autumn or Spring |
| Location: | Wollongong |
| UOW Course Code: | 201 |
| CRICOS Code: | 001243F (Lab), 020192K (non-Lab) |

Overview

Candidates complete a major thesis and undertake a research project arranged in consultation with an appropriate member of staff, and approved by the Head of Department or School, before enrolment. Doctoral theses must make a major original contribution to scientific knowledge in the chosen area of research.

Entry Requirements / Assumed Knowledge

Honours degree of at least four years duration in a relevant discipline at Class II, Division 2, or higher (or equivalent).

Course Requirements

Candidates complete a Doctoral dissertation of approximately 60,000 – 80,000 words in length. Students enrol in the appropriate major thesis subject.

Disciplinary Areas Available

Biological Sciences
Chemistry
Environmental Science
Geography
Geology
Physics*

**Refer to Faculty of Engineering*

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.
Web site: www.uow.edu.au/science/.

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences 4221 3013, Department of Chemistry 4221 3509 or School of Earth and Environmental Sciences 4221 3721.

Master of Science - Research

| | |
|---------------------------|-----------------------------------|
| Testamur Title of Degree: | Master of Science - Research |
| Abbreviation: | MSc - Res |
| Home Faculty: | Science |
| Duration: | 1.5 years or part-time equivalent |
| Total Credit Points: | 72 |
| Starting Session(s): | Autumn or Spring |
| Location: | Wollongong |
| UOW Course Code: | 304 |
| CRICOS Code: | 042532B |

Overview

Courses provide for the specific needs and interests of students wishing to obtain experience in a modern research program.

Entry Requirements / Assumed Knowledge

Minimum entry requirement is a Bachelor degree with a major study in the relevant discipline.

Course Requirements

The course consists of 72 credit points to be completed in a maximum time of two years (four sessions), as follows:

- 24 credit points of coursework; and
- 48 credit point research project.

Students entering with a degree at the level of at least a Bachelor Honours Class II, Division 2 may be awarded the 24 credit points of coursework as advanced standing based on prior research training.

Students undertaking the 24 credit points of coursework will select appropriate postgraduate subjects from those offered in the discipline in consultation with the Head of Department or School or the Postgraduate Coordinator.

For detailed possible coursework subject programs consult the Master of Science by coursework degree in the relevant discipline.

Disciplinary Areas Available

Biological Sciences
 Biotechnology
 Chemistry
 Geography
 Geology
 Medicinal Chemistry
 Physics*

**Refer to Faculty of Engineering*

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.

Web site: www.uow.edu.au/science/

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences 4221 3013, Department of Chemistry 4221 3509 or School of Earth and Environmental Sciences 4221 3721.

Master of Environmental Science - Research

| | |
|---------------------------|---|
| Testamur Title of Degree: | Master of Environmental Science - Research |
| Abbreviation: | MEnvSc - Res |
| Home Faculty: | Science |
| Duration: | 1-2 years depending on entry qualifications |
| Total Credit Points: | 72 |
| Delivery Mode: | Flexible and face-to-face |
| Starting Session(s): | Autumn and Spring |
| Location: | Wollongong |
| UOW Course Code: | 1312 |
| CRICOS Code: | 042533A |

Overview

This program involves a major project in one of the many research areas of environmental science available in the Faculty. The research project will provide information for improved understanding of how ecosystems work, for solving environmental problems of immediate concern and to assist policy makers in developing new strategies and legislation for environmental management. This degree provides the opportunity for students to contribute to this work by undertaking a major research project in one of the areas of environmental science within the Faculty.

Entry Requirements / Assumed Knowledge

A degree with Honours in environmental science, science or engineering at a level of at least Class II, Division 2, or a Master of Environmental Science or Master of Science with credit average, or equivalent qualifications or appropriate publications and work experience.

Entry must be approved by the Coordinator and, if thesis work is being supervised by staff from an Academic Unit, the Head of that Unit.

Course Requirements

The course consists of 72 credit points to be completed in a maximum time of 2 years (4 sessions), as follows:

1. a 48 credit point research project (THES924 Thesis);
2. a maximum of 24 credit points of subjects, chosen from the Environmental Science postgraduate schedule in consultation with the Coordinator of Environmental Science.

Special Note: Students entering with an Honours degree at the level of at least Bachelor Honours Class II, Division 2, or a Master of Environmental Science degree (or equivalent) will normally be awarded advanced standing for the 24 credit points of coursework, except for candidates with no background in environmental science who will be required to complete ENVI920 Scientific Basis of Environmental Management (8 cps).

Course Program

| Subjects | | Session | Credit Points |
|---|--|--------------------------|---------------|
| THES924 | Thesis | | 48 |
| Plus a maximum of 24 credit points of subjects chosen from those listed below in consultation with the Coordinator of Environmental Science | | | |
| ENVI921 | Environmental Planning | Autumn | 8 |
| ENVI920 | The Scientific Basis of Environmental Management | Spring | 8 |
| ENVI910 | Directed Studies in Pollution Chemistry | Annual, Spring or Autumn | 12 |
| ENVI911 | Directed Studies in Ecology | Annual, Spring or Autumn | 12 |
| ENVI912 | Directed Studies in Land Resources | Annual, Spring or Autumn | 12 |
| ENVI913 | Directed Studies in Earth Sciences | Annual, Spring or Autumn | 12 |
| ENVI919 | Directed Studies in Environmental Science | Annual, Spring or Autumn | 12 |
| EESC902 | Advanced Coastal Environments | Spring | 12 |
| EESC903 | Advanced Fluvial Geomorphology & Sedimentology | Autumn | 12 |
| EESC904 | Advanced Geographic Information Systems | Spring | 12 |
| EESC912 | Advanced Soils, Landscape and Hydrology | Spring | 12 |
| EESC905 | Advanced Remote Sensing | Spring | 12 |
| EESC951 | Advanced Topic B | Autumn, Spring or Annual | 8 |
| ENVE985 | Environmental Engineering | Autumn | 8 |

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.

Or the Environmental Science Unit, 19.G012, 4221 4134.

Web site: <http://www.uow.edu.au/science/eesc/student/envsci.html>.

The Degree Coordinator is Professor John Morrison, Environmental Science Unit, School of Earth and Environmental Sciences, Room 19.G012.

Master of Environmental Science - Advanced

| | |
|---------------------------|--|
| Testamur Title of Degree: | Master of Environmental Science - Advanced |
| Abbreviation: | MEnvSc Adv |
| Home Faculty: | Science |
| Duration: | 2 years or part-time equivalent |
| Total Credit Points: | 96 |
| Delivery Mode: | Face-to-face |
| Starting Session(s): | Autumn and Spring |
| Location: | Wollongong |
| UOW Course Code: | 412 |
| CRICOS Code: | 048589C |

Overview

This degree is aimed primarily at international students, and combines research and coursework to provide a two-year (or part-time equivalent) degree for Science and Engineering graduates or others, with a limited undergraduate background in the environmental science area.

Entry Requirements / Assumed Knowledge

Bachelor degree in Environmental Science, Science, Applied Science, Agriculture, Forestry, Veterinary Science or Engineering, or equivalent tertiary qualifications and/or professional experience. Students must consult with the Coordinator of Environmental Science for approval of overall entry.

Course Requirements

Candidates must complete the three core subjects plus a Research Report of either 24 or 32 credit points plus elective subjects to total 96 credit points, as set out below.

Course Program

| Subjects | | Session | Credit Points |
|-------------------------------------|--|--------------------------|---------------|
| ENVI920 | The Scientific Basis of Environmental Management | Spring | 8 |
| ENVI921 | Environmental Planning | Autumn | 8 |
| STS929 | Studies in Resource and Environmental Policy | Autumn | 8 |
| Plus one of the following: | | | |
| ENVI930 | Research Report | Annual, Autumn or Spring | 24 |
| ENVI931 | Research Report | Annual, Autumn or Spring | 32 |
| Plus two or three of the following: | | | |
| LAW9380 | Law for Environmental Managers | Spring | 8 |
| ENVE985 | Environmental Engineering | Autumn | 8 |
| STS300 | The Environmental Context | Autumn | 8 |
| Plus at least two of the following: | | | |
| ENVI910 | Directed Studies in Pollution Chemistry | Annual, Autumn or Spring | 12 |
| ENVI911 | Directed Studies in Ecology | Annual, Autumn or Spring | 12 |
| ENVI912 | Directed Studies in Land Resources | Annual, Autumn or Spring | 12 |
| ENVI913 | Directed Studies in Earth Sciences | Annual, Autumn or Spring | 12 |

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481, email trina@uow.edu.au or the Environmental Science Unit, 19.G012, 4221 4134.

Web site: <http://www.uow.edu.au/science/eesc/student/envsci.html>.

The Degree Coordinator is Professor John Morrison, Environmental Science Unit, School of Earth and Environmental Sciences, Room 19.G012.

Master of Arts (Geography)

| | |
|---------------------------|--------------------------------|
| Testamur Title of Degree: | Master of Arts (Geography) |
| Abbreviation: | MA |
| Home Faculty: | Science |
| Duration: | 1 year or part-time equivalent |
| Total Credit Points: | 48 |
| Delivery Mode: | Face-to-face |
| Starting Session(s): | Autumn or Spring |
| Location: | Wollongong |
| UOW Course Code: | 571 |
| CRICOS Code: | 042535K |

Overview

This coursework degree is designed for candidates who wish to extend their grounding in Geography beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BA (Honours) degree.

Entry Requirements / Assumed Knowledge

Normally a pass Bachelors degree of at least 3 years duration in a relevant discipline (with at least three third year level subjects in the discipline) or a similar tertiary qualification, with relevant work experience, as approved by the Head of School.

Course Requirements

Candidates must complete 48 credit points of 900-level subjects, as set out below, as approved by the Course Coordinator. Students may be required to complete additional credit points if their disciplinary background is deemed not satisfactory.

Geography

Course Information

The following coursework subjects have been devised by the School of Earth and Environmental Sciences to meet the needs of students who wish to proceed to the postgraduate level in Geography to enhance their qualifications in an area without undertaking a research project.

The subjects have been grouped in two strands which reflect the major research strengths in Geography within the School of Earth and Environmental Sciences.

- Physical Geography and Environments
- Human Geography and Environments

Students with a satisfactory background in Earth and Environmental Sciences complete subjects to the value of 48 credit points chosen from either of the two programs, in consultation with the Course Coordinator. Other students may be required to complete subjects to a value of 72 credit points.

| Subjects | Session | Credit Points |
|--|---|-------------------------|
| Physical Geography and Environments | | |
| EESC901 | Advanced Plate Tectonics, Macrotopography and Earth History | Autumn 12 |
| EESC902 | Advanced Coastal Environments: Processes and Management | Spring 12 |
| EESC903 | Advanced Fluvial Geomorphology and Sedimentology | Autumn 12 |
| EESC904 | Advanced Geographic Information Science | Spring 12 |
| EESC905 | Advanced Remote Sensing | Autumn 12 |
| EESC912 | Advanced Soils, Landscape and Hydrology | Spring 12 |
| EESC950 | Advanced Topic A | Autumn/Spring/Annual 12 |
| EESC951 | Advanced Topic B | Autumn/Spring/Annual 8 |
| Human Geography and Environments | | |
| EESC904 | Advanced Geographic Information Science | Spring 12 |
| EESC905 | Advanced Remote Sensing | Autumn 12 |
| EESC910 | Advanced Social Spaces: Rural and Urban | Spring 12 |
| EESC917 | Advanced Spaces, Places and Identities | Autumn 12 |
| EESC918 | Advanced Environmental and Heritage Management | Spring 12 |
| EESC950 | Advanced Topic A | Autumn/Spring/Annual 12 |
| EESC951 | Advanced Topic B | Autumn/Spring/Annual 8 |

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.

Web site: www.uow.edu.au/science/ .

Specific enquiries should be directed to the School of Earth and Environmental Sciences 4221 3721.

Master of Science

| | |
|---------------------------|------------------------------------|
| Testamur Title of Degree: | Master of Science (specialisation) |
| Abbreviation: | MSc |
| Home Faculty: | Science |
| Duration: | 1 year or part-time equivalent |
| Total Credit Points: | 48 |
| Delivery Mode: | Face-to-face |
| Starting Session(s): | Autumn or Spring |
| Location: | Wollongong |
| UOW Course Code: | 574 |
| CRICOS Code: | 048498F |

Overview

This coursework degree is designed for candidates who wish to extend their grounding in a particular science discipline beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BSc (Honours) degree.

Specialisations available are:

- Biotechnology
- Environmental Biology

- Chemistry
- Medicinal Chemistry
- Medical Radiation Physics (refer to the Faculty of Engineering)
- Geography
- Geology

Entry Requirements / Assumed Knowledge

Normally a pass Bachelors degree of at least 3 years duration in the relevant discipline (with at least three third year level subjects in the discipline) or a similar tertiary qualification, with relevant work experience, as approved by the relevant Masters Coordinator or Head of Department or School.

Additional specific entry requirements for Biotechnology:

A relevant undergraduate degree of at least four years duration, or a similar tertiary qualification with relevant work experience. The degree must have included components dealing with one or more of the following areas: biology, biochemistry, cell biology, molecular biology, or microbiology. In addition, the student must have completed the equivalent of at least one year of academic study in chemistry.

Course Requirements

Candidates must complete 48 credit points of 900-level subjects as determined for the disciplinary specialisation, as set out below, and approved by the Course Coordinator. Students may be required to complete additional credit points if their disciplinary background is deemed not satisfactory.

Areas of Specialisation

Biotechnology

The Master of Science (Biotechnology) is designed for graduates who seek knowledge and technological expertise in specific areas of cell and molecular biology, which are the basis for modern biotechnological research and development. Students complete 48 credit points of subjects as listed below chosen in consultation with the Biotechnology Masters Coordinator.

Note: Spring Session start is not advised unless the student has a very strong academic background.

| Subjects | Session | Credit Points | |
|--|--|------------------------|----|
| BIOL980 | Biotechnology | Autumn | 12 |
| BIOL981 | Molecular Cell Biology | Autumn | 12 |
| BIOL982 | Infection and Immunity | Spring | 12 |
| BIOL984 | Applied Bioinformatics | Spring | 12 |
| Optional Subjects | | | |
| One of the following subjects may be substituted for one of the core subjects after consultation with the Biotechnology Masters Coordinator. | | | |
| BIOL972 | Ecological and Evolutionary Physiology | Autumn | 12 |
| BIOL983 | Research Methods in Biotechnology | Autumn | 12 |
| BIOL992 | Literature Review | Autumn/ Spring/ Summer | 12 |
| BIOL993 | Research Project | Autumn/ Spring/ Summer | 12 |

Environmental Biology

This coursework program is designed for students who seek further knowledge and skills in the biological sciences, or seek to qualify for a postgraduate research degree. Students complete coursework to a value of 48 credit points as listed below, chosen in consultation with the Masters Coordinator.

Note: Spring Session start is not advised unless the student has a very strong academic background.

| Subjects | Session | Credit Points | |
|----------------------------|--|------------------------|----|
| BIOL970 | Advances in Conservation Biology | Autumn | 12 |
| BIOL971 | Marine and Terrestrial Ecology | Spring | 12 |
| BIOL972 | Ecological and Evolutionary Physiology | Autumn | 12 |
| MARE973 | Advanced Topics in Fisheries and Aquaculture | Spring | 12 |
| Alternative Options | | | |
| MARE957 | Advanced Topics in Molluscan Biology | Summer | 12 |
| BIOL992 | Literature Review | Autumn/ Spring/ Summer | 12 |
| BIOL993 | Research Project | Autumn/ Spring/ Summer | 12 |
| BIOL991 | Major Research Project | Autumn/ Spring/ Summer | 24 |

Or 900- level subjects from other academic units subject to the approval of the Heads of those units and the Masters Coordinator

Note: Students cannot enrol in subjects where they have completed the equivalent 300- level subjects at this University.

Chemistry

This program is designed for applicants from industry or education who wish to extend their grounding in chemistry theory beyond the undergraduate level. It also provides an alternative route to subsequent PhD studies for students who do not possess a BSc(Honours) degree. Candidates complete 48 credit points of coursework consisting of the following four subjects.

| Subjects | Session | Credit Points |
|---|------------------------|---------------|
| CHEM910 Research Skills Training Plus 3 subjects selected from: | Annual/ Autumn/ Spring | 12 |
| CHEM915 Advanced Chemistry Laboratory Project | Annual/ Autumn/ Spring | 12 |
| CHEM919 Literature Report in Chemistry | Annual/ Autumn/ Spring | 12 |
| CHEM940 Contemporary Topics in Biomolecular Chemistry | Annual/ Autumn/ Spring | 12 |
| CHEM950 Contemporary Topics in Analytical and Environmental Chemistry | Annual/ Autumn/ Spring | 12 |

Medicinal Chemistry

This coursework program provides vocational training in medicinal chemistry, an area where there is currently a high demand for graduates. The program consists of special coursework in medicinal chemistry and a small research project.

Students complete 48 credit points of coursework over one year (or equivalent part time) by enrolling in the following subjects, as approved by the Course Coordinator.

| Subjects | Session | Credit Points |
|--|------------------------|---------------|
| CHEM910 Research Skills Training | Annual/ Autumn/ Spring | 12 |
| CHEM930 Selected Topics in Medicinal Chemistry Plus two subjects selected from: | Annual/ Autumn/ Spring | 12 |
| CHEM915 Advanced Chemistry Laboratory Project | Annual/ Autumn/ Spring | 12 |
| CHEM919 Literature Report in Chemistry | Annual/ Autumn/ Spring | 12 |
| CHEM940 Contemporary Topics in Biomolecular Chemistry | Annual/ Autumn/ Spring | 12 |
| CHEM950 Contemporary Topics in Analytical and Environmental Chemistry | Annual/ Autumn/ Spring | 12 |

Geography or Geology

The following coursework subjects have been devised by the School of Earth and Environmental Sciences to meet the needs of students who wish to proceed to the postgraduate level in Geography or Geology to enhance their qualifications in an area without undertaking a research project. The subjects have been grouped in three strands which reflect the major research strengths within the School of Earth and Environmental Sciences.

- Physical Geography and Environments
- Human Geography and Environments
- Geology

Students with a satisfactory background in Earth and Environmental Sciences complete subjects to the value of 48 credit points chosen from either of the two programs in consultation with the Course Coordinator. Other students may be required to complete subjects to a value of 72 credit points.

| Subjects | Session | Credit Points |
|---|------------------------|---------------|
| Physical Geography and Environments | | |
| EESC901 Advanced Plate Tectonics, Macrotopography and Earth History | Autumn | 12 |
| EESC902 Advanced Coastal Environments: Processes and Management | Spring | 12 |
| EESC903 Advanced Fluvial Geomorphology and Sedimentology | Autumn | 12 |
| EESC904 Advanced Geographic Information Science | Spring | 12 |
| EESC905 Advanced Remote Sensing | Autumn | 12 |
| EESC912 Advanced Soils, Landscape and Hydrology | Spring | 12 |
| EESC950 Advanced Topic A | Autumn/ Spring/ Annual | 12 |
| EESC951 Advanced Topic B | Autumn/ Spring/ Annual | 8 |
| Human Geography and Environments | | |
| EESC904 Advanced Geographic Information Science | Spring | 12 |
| EESC905 Advanced Remote Sensing | Autumn | 12 |
| EESC910 Advanced Social Spaces: Rural and Urban | Spring | 12 |
| EESC917 Advanced Spaces, Places and Identities | Autumn | 12 |
| EESC918 Advanced Environmental and Heritage Management | Spring | 12 |
| EESC950 Advanced Topic A | Autumn/ Spring/ Annual | 12 |
| EESC951 Advanced Topic B | Autumn/ Spring/ Annual | 8 |

| Subjects | | Session | Credit Points |
|----------------|---|------------------------|---------------|
| Geology | | | |
| EESC901 | Advanced Plate Tectonics, Macrotopography and Earth History | Autumn | 12 |
| EESC903 | Advanced Fluvial Geomorphology and Sedimentology | Autumn | 12 |
| EESC904 | Advanced Geographic Information Science | Spring | 12 |
| EESC905 | Advanced Remote Sensing | Autumn | 12 |
| EESC911 | Isotope Geochemistry | Autumn | 12 |
| EESC921 | Environmental Geology | Spring | 12 |
| EESC950 | Advanced Topic A | Autumn/ Spring/ Annual | 12 |
| EESC951 | Advanced Topic B | Autumn/ Spring/ Annual | 8 |

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.

Web site: www.uow.edu.au/science/ .

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences 4221 3013, Department of Chemistry 4221 3509 or School of Earth and Environmental Sciences 4221 3721.

Master of Environmental Science

| | |
|---------------------------|---------------------------------|
| Testamur Title of Degree: | Master of Environmental Science |
| Abbreviation: | MEnvSc |
| Home Faculty: | Science |
| Duration: | 1 year or part-time equivalent |
| Total Credit Points: | 48 |
| Delivery Mode: | Face-to-face |
| Starting Session(s): | Autumn and Spring |
| Location: | Wollongong |
| UOW Course Code: | 1500 |
| CRICOS Code: | 026171M |

Overview

This program is designed for applicants who wish to extend their knowledge of science relating to the environment, by studying areas not covered in their undergraduate Science or Engineering degree (including environmental policy, planning and management).

Entry Requirements / Assumed Knowledge

Completion of a recognised Bachelor Degree, either: Environmental Science; Science; Applied Science; Agriculture; Forestry; Veterinary Science or Engineering (or equivalent qualifications and/or professional experience).

Alternative Entry Criteria: The person would be required to have been working in a position for at least five years which, if they left, would be filled by an appropriately qualified graduate. Normally a written statement from a suitably qualified person, usually a senior manager with a strong science background, is required as confirmation of the necessary skills.

Course Requirements

Students will undertake a program of at least 48 credit points, comprising two compulsory subjects, and optional subjects selected from the subjects listed below and approved by the Coordinator of the degree.

Course Program

| Subjects | | Session | Credit Points |
|---|--|------------------------|---------------|
| ENVI920 | The Scientific Basis of Environmental Management | Spring | 8 |
| ENVI921 | Environmental Planning | Autumn | 8 |
| Plus at least 32 credit points chosen from: | | | |
| STS929 | Studies in Resource and Environmental Policy | Autumn | 8 |
| ENVI910 | Directed Studies in Environmental Chemistry | Annual/ Spring/ Autumn | 12 |
| ENVI911 | Directed Studies in Ecology | Annual/ Spring/ Autumn | 12 |
| ENVI912 | Directed Studies in Land Resources | Annual/ Spring/ Autumn | 12 |
| ENVI913 | Directed Studies in Earth Sciences | Annual/ Spring/ Autumn | 12 |
| ENVI919 | Directed Studies in Environmental Science | Annual/ Spring/ Autumn | 12 |
| EESC902 | Advanced Coastal Environments | Spring | 12 |
| EESC903 | Advanced Fluvial Geomorphology & Sedimentology | Autumn | 12 |

Course Information

| Subjects | | Session | Credit Points |
|-----------------|---|------------------------|----------------------|
| EESC904 | Advanced Geographic Information Systems | Spring | 12 |
| EESC905 | Advanced Remote Sensing | Spring | 12 |
| EESC912 | Advanced Soils, Landscape and Hydrology | Spring | 12 |
| EESC951 | Advanced Topic B | Autumn/ Spring/ Annual | 8 |
| LAW9380 | Law for Environmental Managers | Spring | 8 |
| ENVE985 | Environmental Engineering | Autumn | 8 |

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481, or the Environmental Science Unit, 19.G012, 4221 4134. Web site: www.uow.edu.au/science/eesc/student/envsci.html.

The Degree Coordinator is Professor John Morrison, Environmental Science Unit, School of Earth and Environmental Sciences, Room 19.G012.

Graduate Diploma in Science

| | |
|---------------------------|--|
| Testamur Title of Degree: | Graduate Diploma in Science (specialisation) |
| Abbreviation: | GDipSc |
| Home Faculty: | Science |
| Duration: | 1 year |
| Total Credit Points: | 48 |
| Delivery Mode: | Face-to-face |
| Starting Session(s): | Autumn or Spring |
| Location: | Wollongong |
| UOW Course Code: | 650 |
| CRICOS Code: | 007042M |

Overview

The Graduate Diploma in Science provides graduates with the opportunity to acquire competence in a particular area of science at a sufficiently advanced level, to enable them to either proceed with further study or to update, broaden or intensify their knowledge and skills in the discipline.

The diploma will be found useful by international students, and by students either without a full major in a discipline at undergraduate level, or who completed their first degree some years ago.

The disciplines available are:

- Biological Sciences
- Chemistry
- Geography
- Geology
- Physics*

*Refer to the Faculty of Engineering

Entry Requirements / Assumed Knowledge

A relevant undergraduate degree of at least three years duration, or a similar tertiary qualification with relevant work experience.

Course Requirements

Candidates select subjects to the value of 48 credit points from the Undergraduate Science Schedule of subjects, the selection to be approved the Head of the relevant Department or School, who may also specify other required subjects.

Other Information

For further information contact the Faculty of Science Office, 41.258, or telephone 4221 3481.
Web site: www.uow.edu.au/science/.

Specific enquiries should be directed to the appropriate Academic Unit: School of Biological Sciences 4221 3013, Department of Chemistry 4221 3509 or School of Earth and Environmental Sciences 4221 3721.
