# University of Pretoria Yearbook 2018

# MSc Environmental Education (Coursework) (02250531)

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| **Minimum duration of study** | 2 years |
| **Total credits** | 180 |

## Programme information

The Centre for Environmental Studies is a graduate school for multidisciplinary training and research focusing on the environment. Training aims to satisfy the need for environmental professionals for implementing current environmental legislation as well as industry-driven environmental management systems.

This programme is coordinated by the Faculty of Education.

The purpose of this focus area is to train environmental graduates who specialised in careers in environmental education. On completion of the training, candidates should be conversant and be able to partake in, or render advice concerning, all aspects involved in the transfer of environmental principles by education. This includes the transfer of relevant ethical, social and ecological principles to learners, the roles of the NQF and outcomes-based education for approaches towards environmental education, the roles of facilitation, engagement, meta-learning, creative problem solving, cooperative learning and feedback in the learning task.

The MSc degree is conferred on the grounds of a dissertation and such additional postgraduate coursework as may be prescribed.

**Renewal of registration**
As long as progress is satisfactory, renewal of the registration of a master's student will be accepted for the second year of the study. Registration for a third and subsequent years will only take place when the Student Administration of the Faculty receives a written motivation that is supported by the head of department and Postgraduate Studies Committee.

**General**
Candidates are required to familiarise themselves with the General Regulations regarding the maximum period of registration and the requirements on the submission of a draft article for publication.

## Admission requirements

Before application for admission to the MSc (Environmental Education) degree programme candidates must be in possession of an appropriate four-year degree qualification BScHons or equivalent degree status which includes appropriate educational subjects. Final admission is subject to the approval of the Director of the Centre for Environmental Studies and the Director of the Centre for Science, Mathematics and Technology Education.

Admission is additionally dependent on availability of supervisor/s and/or projects within the department.

## Additional requirements

Candidates must demonstrate proficiency in the English language up to the level required by either the TOEFL test (www.ets.org/toefl) or the IELTS language proficiency test (www.ielts.org).

## Other programme-specific information

At least one additional elective module must be selected in consultation with the Director of the Centre and the Head of the Department Curriculum Studies, Faculty of Education. Choices will be based on the academic background and/or anticipated career of the candidate.

## Promotion to next study year

The progress of all master's candidates is monitored biannually by the supervisor and the postgraduate coordinator. A candidate's study may be terminated if the progress is unsatisfactory or if the candidate is unable to finish his/her studies during the prescribed period.

Subject to exceptions approved by the dean, on recommendation of the head of department, and where applicable, a student may not enter for the master's examination in the same module more than twice.

## Pass with distinction

The MSc degree is conferred with distinction to candidates who obtain a final average mark of at least 75% and a mark of at least 75% for the dissertation/mini-dissertation from each of the members of the examination panel. Where a member of the examination panel awards a mark of less than 75% for the dissertation/mini-dissertation, that member of the examination panel must offer, in writing, support for his/her decision, or indicate in writing that he/she supports the examination committee's decision to confer the degree with distinction.

# Curriculum: Year 1

**Minimum credits: 180**

## Core modules

### Environmental paradigms 810 (ENV 810)

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|---|---|
| **Module credits** | 15.00 |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 5 discussion classes per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |
| **Period of presentation** | Semester 1 |

**Module content**

Environmental philosophy and ethics, environmental ecology, environment, society and development, environmental economics, environmental management, critical resources management: water utilisation, air quality control, land-use planning: soil characteristics, biodiversity planning, critical resource management: determinism vs co-evolutionary environmental frameworks, research methodology and practice.

### Environmental law 816 (ENV 816)

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|---|---|
| **Module credits** | 15.00 |
| **Service modules** | Faculty of Law |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 1 lecture per week, 1 web-based period per week, 2 practicals per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |
| **Period of presentation** | Semester 1 or Semester 2 |

**Module content**

Legislation for sustainable development within the framework of international agreements, the different acts affecting water quality and water use, the SEMAs within the NEMA framework, the NEMA EIA regulations, legislation pertaining to hazardous substances, interaction between mining development and NEMA, energy law, strategic environmental legislation, marine and coastal management.

### Mini-dissertation 891 (ENV 891)

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|---|---|
| **Module credits** | 90.00 |
| **Prerequisites** | No prerequisites. |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |

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|---|---|
| **Period of presentation** | Year |

**Module content**

The student needs to conduct a research project under the supervision of an academic member of staff associated with the Centre for Environmental Studies. This project needs to be of a sufficient quality to be publishable in the open scientific literature. The research report is examined as a manuscript for a suitable journal.

## Research methods in science education 881 (SCE 881)

| | |
|---|---|
| **Module credits** | 15.00 |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Centre for Science Development |
| **Period of presentation** | Semester 1 |

**Module content**

The purpose of this course is to:
- Be exposed to the discipline of Educational Research
- Understand research concepts, principles and methods
- Obtain skills such as: the formulation and definition of a research problem, the use of literature to obtain an in depth understanding of a problem, the design of the research protocol, the interpretation of research results to draw conclusions about a research problem.

# Curriculum: Final year

**Minimum credits: 180**

## Core modules

### Environmental paradigms 810 (ENV 810)

| | |
|---|---|
| **Module credits** | 15.00 |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 5 discussion classes per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |
| **Period of presentation** | Semester 1 |

**Module content**

Environmental philosophy and ethics, environmental ecology, environment, society and development, environmental economics, environmental management, critical resources management: water utilisation, air quality control, land-use planning: soil characteristics, biodiversity planning, critical resource management: determinism vs co-evolutionary environmental frameworks, research methodology and practice.

### Environmental law 816 (ENV 816)

| | |
|---|---|
| **Module credits** | 15.00 |
| **Service modules** | Faculty of Law |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 1 lecture per week, 1 web-based period per week, 2 practicals per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |
| **Period of presentation** | Semester 1 or Semester 2 |

**Module content**

Legislation for sustainable development within the framework of international agreements, the different acts affecting water quality and water use, the SEMAs within the NEMA framework, the NEMA EIA regulations, legislation pertaining to hazardous substances, interaction between mining development and NEMA, energy law, strategic environmental legislation, marine and coastal management.

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|---|---|
| **Module credits** | 90.00 |
| **Prerequisites** | No prerequisites. |
| **Language of tuition** | Module is presented in English |
| **Department** | Zoology and Entomology |

| | |
|---|---|
| **Period of presentation** | Year |

**Module content**

The student needs to conduct a research project under the supervision of an academic member of staff associated with the Centre for Environmental Studies. This project needs to be of a sufficient quality to be publishable in the open scientific literature. The research report is examined as a manuscript for a suitable journal.

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The information published here is subject to change and may be amended after the publication of this information. The General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the General Rules section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.