



# Universiteit van Pretoria Jaarboek 2018

## MSc Omgewingsbestuur (Gedoseer) (02250407)

**Minimum duur van studie** 2 jaar

**Totale krediete** 180

### Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

Coordinated by the Department of Zoology and Entomology.

The purpose of this focus area is to train environmental graduates considered generalists for managing the full spectrum of human-environment-economic interactions. On completion of the training, candidates should be conversant and be able to partake in, or render advice concerning, all aspects involved in managing social, economic and environmental processes in a sustainable manner. This includes social and environmental impact assessment, policy formulation, social development and planning, eco-system structure, composition and function, ecosystem services, ecosystem health, invasive species, species and community restoration, conservation education, local communities and conservation, economic inefficiency, misallocation, market failure, policy failure, the economics of renewable and non-renewable resources, cost-benefit analysis, valuation of environmental goods and services and environmental accounting.

#### **There are two independent foci of the master's option in Environmental Management:**

- Focus area: Sustainable Development
- Focus area: Environmental Economics

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.

### Toelatingsvereistes

Candidates must be in possession of a BScHons degree or a degree with equivalent degree status (SAQA NQF 7). Final admission is subject to the approval of the Director of the Centre for Environmental Studies.



---

## Addisionele vereistes

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

## Ander programspesifieke inligting

### **Note:**

For the focus on Sustainable Development, final admission is subject to the approval of the Director of the Centre for Environmental Studies.

For the focus on Environmental Economics, students without a formal background in economics will be considered. Admission is subject to the approval of the Head of the Department of Agricultural Economics, Extension and Rural Development and the Director of the Centre for Environmental Studies. Additional courses in economics or related topics may be prescribed for students, depending on their academic background.

## Bevordering tot volgende studiejaar

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.

## Slaag met lof

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.



## Kurrikulum: Jaar 1

Minimum krediete: 180

### Kernmodules

#### Omgewing en Ontwikkeling 811 (ENS 811)

**Modulekrediete** 15.00

**Voorvereistes** Geen voorvereistes.

**Onderrigtaal** Module word in Engels aangebied

**Departement** Geografie, Geoinformatika en Meteorologie

**Aanbiedingstydperk** Jaar

#### Module-inhoud

Hierdie module fokus op die interaksie tussen sosiale en omgewingsdinamika. Dit dek aspekte van sosiale struktuur, kultuur, politiek, opvoeding, migrasie, produksie, stadsvorming, demografie en sosiale instellings en hul effek op die omgewing. Die materiaal sluit ook in die gevolg van impakte soos omgewingsverandering wat op hul beurt weer die samelewing beïnvloed. Die ontleding van komplekse verwantskappe tussen die samelewing en die omgewing, koppeling tussen die samelewing en omgewing en sinergistiese effekte tussen hierdie verskynsels.

#### Stratiese omgewingsbestuur 822 (ENS 822)

**Modulekrediete** 15.00

**Diensmodules** Fakulteit Regsgeleerdheid

**Voorvereistes** Geen voorvereistes.

**Kontaktyd** 2 besprekingsklasse per week, 5 lesings per week

**Onderrigtaal** Module word in Engels aangebied

**Departement** Geografie, Geoinformatika en Meteorologie

**Aanbiedingstydperk** Jaar

#### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Strategic environmental planning: introduction, objectives and principles; levels; South African overview; guidelines: national and international; strategy and management; structure, strategy and agency; South African guidelines; diagnostic tools; RESP analysis; strategic resource planning; applications, implementation and control; development and policy implementation; South African environmental policy; evaluation frameworks; portfolio analysis; competitive forces; alliances; business benefits; intangibles, survival and catalytic contributions; South African legislation and regulations.

#### Omgewingsparadigmas 810 (ENV 810)

**Modulekrediete** 15.00



<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	5 besprekingsklasse per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Dierkunde en Entomologie
<b>Aanbiedingstydperk</b>	Semester 1

#### **Module-inhoud**

Omgewingsfilosofie en etiek. Omgewingsekologie, omgewing, gemeenskap en ontwikkeling, omgewingseconomie, kritiese hulpbronbestuur. Waterbenutting, lug-kwaliteitsbeheer, beplanning van landbenutting. Kenmerke van grond. Beplanning van biodiversiteit. Determinisme versus ko-evolutionêre omgewingsraamwerke. Navorsings-metodologie en -praktyk.

### **Omgewingsreg 816 (ENV 816)**

<b>Modulekrediete</b>	15.00
<b>Diensmodules</b>	Fakulteit Regsgeleerdheid
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	1 lesing per week, 2 praktiese sessies per week, 1 webgebaseerde periode per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Dierkunde en Entomologie
<b>Aanbiedingstydperk</b>	Semester 1 of Semester 2

#### **Module-inhoud**

\*Hierdie inligting is slegs in Engels beskikbaar.

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.

### **Miniverhandeling 891 (ENV 891)**

<b>Modulekrediete</b>	90.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Dierkunde en Entomologie
<b>Aanbiedingstydperk</b>	Jaar



## Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

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.

## Keusemodules

### Sosiale modellering en bepaling 824 (ENS 824)

<b>Modulekrediete</b>	15.00
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	5 besprekingsklasse per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Geografie, Geoinformatika en Meteorologie
<b>Aanbiedingstydperk</b>	Jaar

## Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

In this module students will be introduced to the various methods of modelling and assessing social impacts. Specific emphasis will be placed upon modelling societal-economic-environmental interactions, formulating stochastic and dynamic models of population-development-environment interactions, conducting research to determine possible impacts of environmental changes on communities and performing social impact surveys. Students will be introduced to both quantitative as well as qualitative methods of conducting social impacts assessments.

### Omgewingswaardasie en beleid 826 (LEK 826)

<b>Modulekrediete</b>	15.00
<b>Diensmodules</b>	Fakulteit Ekonomiese en Bestuurswetenskappe
<b>Voorvereistes</b>	Geen voorvereistes.
<b>Kontaktyd</b>	1 lesing per week
<b>Onderrigtaal</b>	Module word in Engels aangebied
<b>Departement</b>	Landbou-ekonomie, Voorligting en Landelike Ontw
<b>Aanbiedingstydperk</b>	Semester 2



## Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

Environmental valuation and policy. This module will review the basic principles of microeconomic theory needed for understanding and analysis of environmental problems, introduce market and non-market techniques of valuation of natural resources and environmental services (hedonic pricing, contingent valuation, transport cost, willingness-to-pay, cost-based techniques, etc.), public goods and environmental externalities, property rights regimes and selection of appropriate environmental policy instruments for management of environmental externalities.

## Institusionele ekonomie 882 (LEK 882)

**Modulekrediete** 15.00

**Diensmodules** Fakulteit Ekonomiese en Bestuurswetenskappe

**Voorvereistes** MIE 780

**Kontaktyd** 1 lesing per week

**Onderrigtaal** Module word in Engels aangebied

**Departement** Landbou-ekonomie, Voorligting en Landelike Ontw

**Aanbiedingstydperk** Semester 1

## Module-inhoud

\*Verwys asseblief na die Engelse weergawe van die Modulekatalogus vir die inhoud van hierdie module.

## Omgewingsverandering 881 (OMS 881)

**Modulekrediete** 15.00

**Voorvereistes** Geen voorvereistes.

**Onderrigtaal** Aparte klasse vir Engels en Afrikaans

**Departement** Geografie, Geoinformatika en Meteorologie

**Aanbiedingstydperk** Jaar

## Module-inhoud

Beginsels in omgewingsverandering: geomorfologie en omgewingsverandering, klimaatsverandering, omgewingsverandering en die impak daarvan op menslike bewoning, die menslike impak op omgewingsverandering, kontemporêre navorsing in omgewingsverandering.



---

## Kurrikulum: Finale jaar

**Minimum krediete: 180**

### Kernmodules

#### Miniverhandeling 891 (ENV 891)

**Modulekrediete** 90.00

**Voorvereistes** Geen voorvereistes.

**Onderrigtaal** Module word in Engels aangebied

**Departement** Dierkunde en Entomologie

**Aanbiedingstydperk** Jaar

#### Module-inhoud

\*Hierdie inligting is slegs in Engels beskikbaar.

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.

---

Die inligting wat hier verskyn, is onderhewig aan verandering en kan na die publikasie van hierdie inligting gewysig word.. Die [Algemene Regulasies \(G Regulasies\)](#) is op alle fakulteite van die Universiteit van Pretoria van toepassing. Dit word vereis dat elke student volkome vertrouwd met hierdie regulasies sowel as met die inligting vervat in die [Algemene Reëls](#) sal wees. Onkunde betreffende hierdie regulasies en reëls sal nie as 'n verskoning by oortreding daarvan aangebied kan word nie.