



# University of Pretoria Yearbook 2023

## MSc (Environmental Management) (Coursework) (02250407)

**Department** Geography, Geoinformatics and Meteorology

**Minimum duration of study** 2 years

**Total credits** 180

**NQF level** 09

### 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.

Coordinated by the Department of Geography, Geoinformatics and Meteorology.

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

### Admission requirements

1. Relevant BScHons degree with mathematics or statistics passed at first-year level **or** relevant four-year BSc degree with mathematics or statistics passed at first-year level
2. A weighted average of at least 65% at honours or final-year level
3. An admission examination may be required
4. A CV with contactable references may be required

Note: Additional modules may be required in order to reach the desired standard



## Additional requirements

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)).

## Other programme-specific information

### **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.

## 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 relevant head of department, and where applicable, a student may not enter for the master's examination in the same module more than twice.

## General information

### ***University of Pretoria Programme Qualification Mix (PQM) verification project***

*The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.*



## Curriculum: Year 1

### Additional information:

Minimum credits: 180

Core credits: 150

Elective credits: 30

## Core modules

### Environment and development 811 (ENS 811)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

The foundation of the module is the interrelations between societal and environmental dynamics. It deals with issues of social structure, culture, politics, education, migration, production, urbanisation, demographics and social institutions and how these impact upon the environment. Also dealt with is how the consequences of impacts, such as environmental change, in turn affect societies. Analysis of complex interrelationships between society and the environment, social-environmental linkages and multiplier effects are dealt with.

### Strategic environmental management 822 (ENS 822)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Law

**Prerequisites** No prerequisites.

**Contact time** 2 discussion classes per week, 5 lectures per week

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

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.



## Environmental paradigms 810 (ENV 810)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Contact time</b>           | 5 discussion classes per week            |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | 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)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00  |
| <b>NQF Level</b>              | 09   |
| <b>Service modules</b>        | Faculty of Law   |
| <b>Prerequisites</b>          | No prerequisites.  |
| <b>Contact time</b>           | 1 lecture per week, 1 web-based period per week, 2 practicals per week |
| <b>Language of tuition</b>    | Module is presented in English   |
| <b>Department</b>             | Geography Geoinformatics and Meteorology                               |
| <b>Period of presentation</b> | 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)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 90.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | 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.

## Elective modules

### Environment and development 811 (ENS 811)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

The foundation of the module is the interrelations between societal and environmental dynamics. It deals with issues of social structure, culture, politics, education, migration, production, urbanisation, demographics and social institutions and how these impact upon the environment. Also dealt with is how the consequences of impacts, such as environmental change, in turn affect societies. Analysis of complex interrelationships between society and the environment, social-environmental linkages and multiplier effects are dealt with.

### Strategic environmental management 822 (ENS 822)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Law

**Prerequisites** No prerequisites.

**Contact time** 2 discussion classes per week, 5 lectures per week

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

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.



## Environment and land reform 823 (ENS 823)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | Year                                     |

### Module content

The need and purpose of land reform in South Africa and its contribution towards sustainable social-environmental interaction. An overview of the global variety of land tenure systems, and tenure reform programmes in other countries. Overview of previous systems of land tenure in South Africa. Land reform policy in South Africa: restitution, redistribution, and tenure reform. Critical assessment of progress in terms of land reform objectives. Evaluation of the contribution of the South African land reform programme towards creating sustainable environments.

## Social modelling and assessment 824 (ENS 824)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Contact time</b>           | 5 discussion classes per week            |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | Year                                     |

### Module content

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.

## International environmental management systems 822 (ENV 822)

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Module credits</b>      | 15.00                               |
| <b>NQF Level</b>           | 09                                  |
| <b>Prerequisites</b>       | No prerequisites.                   |
| <b>Contact time</b>        | 20 lectures over a period of 1 week |
| <b>Language of tuition</b> | Module is presented in English      |



**Department** Zoology and Entomology

**Period of presentation** Semester 2

### Module content

The ISO framework, environmental risks and opportunities for companies, global environmental concerns, environmental legislation, identification of environmental impacts, environmental certification and auditing, follow-up activities, the Forestry Stewardship Council framework, chain of custody requirements, production standards, FSC reporting.

(\*\* additional costs involved for international UK certificate)

## Trees in a multifunctional landscape 833 (ENV 833)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 1 web-based period per week, 5 discussion classes per week

**Language of tuition** Module is presented in English

**Department** Department of Plant and Soil Sciences

**Period of presentation** Quarter 3

### Module content

Place and role of trees in multifunctional rural landscapes. Trees outside forests. Multipurpose trees. Trees and biodiversity. Trees and environmental services. Trees and sustainable development. Domesticated forests. Agroforestry (definition, classification, challenges and examples). Multiple use of forests and trees. Non-timber tree and forest products. Domestication of multipurpose trees. Forests and people. Trees and agricultural production systems (yield, interactions, synergy, competition, pests and diseases). Case-study examples from sub-Saharan Africa.

## Forest ecology and management 835 (FOR 835)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 1 web-based period per week, 20 discussion classes per block

**Language of tuition** Module is presented in English

**Department** Department of Plant and Soil Sciences

**Period of presentation** Semester 2



## Module content

Structure and function of natural forests, species composition and diversity, disturbance processes and regimes, recovery (succession) concepts and theory, biodiversity in forest ecosystems, energy and nutrient flux in natural forest ecosystems. Resource assessment and planning. Silvicultural systems and management of natural forests (and woodlands), natural regeneration and forest rehabilitation management for sustainability of natural forest ecosystems: multiple use for timber and non-timber forest products, forest rehabilitation (invader plants, mining, degraded forests).

## Environmental valuation and policy 826 (LEK 826)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Economic and Management Sciences

**Prerequisites** No prerequisites.

**Contact time** 1 lecture per week

**Language of tuition** Module is presented in English

**Department** Agricultural Economics Extension and Rural Develo

**Period of presentation** Semester 2

## Module content

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.

## Environmental change 881 (OMS 881)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year





## **Module content**

This module involves the study of the causes and consequences of environmental change from multidisciplinary perspectives. A focus of this course is human environmental interactions. Past processes leading to environmental change will also be discussed. In a given period, the following will be investigated: principles of environmental change, causes and consequences of environmental change, Global warming and climate change: causes and impacts of climate change on natural resources; water, forests, biodiversity, land use and land cover change, environmental/Climate change and infectious disease, human dimensions of global change and Climate change political responses including the Kyoto protocol. Mitigation and adaptation strategies to climate change and effects of Climate change on sustainable development.



## Curriculum: Final year

### Core modules

#### Environment and development 811 (ENS 811)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

The foundation of the module is the interrelations between societal and environmental dynamics. It deals with issues of social structure, culture, politics, education, migration, production, urbanisation, demographics and social institutions and how these impact upon the environment. Also dealt with is how the consequences of impacts, such as environmental change, in turn affect societies. Analysis of complex interrelationships between society and the environment, social-environmental linkages and multiplier effects are dealt with.

#### Strategic environmental management 822 (ENS 822)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Law

**Prerequisites** No prerequisites.

**Contact time** 2 discussion classes per week, 5 lectures per week

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

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.

#### Environmental paradigms 810 (ENV 810)

**Module credits** 15.00

**NQF Level** 09



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|                               |  |
|-------------------------------|--|
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Contact time</b>           | 5 discussion classes per week            |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | 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)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00  |
| <b>NQF Level</b>              | 09   |
| <b>Service modules</b>        | Faculty of Law   |
| <b>Prerequisites</b>          | No prerequisites.  |
| <b>Contact time</b>           | 1 lecture per week, 1 web-based period per week, 2 practicals per week |
| <b>Language of tuition</b>    | Module is presented in English   |
| <b>Department</b>             | Geography Geoinformatics and Meteorology                               |
| <b>Period of presentation</b> | 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)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 90.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | 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.

## Elective modules

### Environment and development 811 (ENS 811)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

The foundation of the module is the interrelations between societal and environmental dynamics. It deals with issues of social structure, culture, politics, education, migration, production, urbanisation, demographics and social institutions and how these impact upon the environment. Also dealt with is how the consequences of impacts, such as environmental change, in turn affect societies. Analysis of complex interrelationships between society and the environment, social-environmental linkages and multiplier effects are dealt with.

### Strategic environmental management 822 (ENS 822)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Law

**Prerequisites** No prerequisites.

**Contact time** 2 discussion classes per week, 5 lectures per week

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

#### Module content

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.



## Environment and land reform 823 (ENS 823)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | Year                                     |

### Module content

The need and purpose of land reform in South Africa and its contribution towards sustainable social-environmental interaction. An overview of the global variety of land tenure systems, and tenure reform programmes in other countries. Overview of previous systems of land tenure in South Africa. Land reform policy in South Africa: restitution, redistribution, and tenure reform. Critical assessment of progress in terms of land reform objectives. Evaluation of the contribution of the South African land reform programme towards creating sustainable environments.

## Social modelling and assessment 824 (ENS 824)

|                               |  |
|-------------------------------|--|
| <b>Module credits</b>         | 15.00                                    |
| <b>NQF Level</b>              | 09                                       |
| <b>Prerequisites</b>          | No prerequisites.                        |
| <b>Contact time</b>           | 5 discussion classes per week            |
| <b>Language of tuition</b>    | Module is presented in English           |
| <b>Department</b>             | Geography Geoinformatics and Meteorology |
| <b>Period of presentation</b> | Year                                     |

### Module content

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.

## International environmental management systems 822 (ENV 822)

|                            |                                     |
|----------------------------|-------------------------------------|
| <b>Module credits</b>      | 15.00                               |
| <b>NQF Level</b>           | 09                                  |
| <b>Prerequisites</b>       | No prerequisites.                   |
| <b>Contact time</b>        | 20 lectures over a period of 1 week |
| <b>Language of tuition</b> | Module is presented in English      |



**Department** Zoology and Entomology

**Period of presentation** Semester 2

### Module content

The ISO framework, environmental risks and opportunities for companies, global environmental concerns, environmental legislation, identification of environmental impacts, environmental certification and auditing, follow-up activities, the Forestry Stewardship Council framework, chain of custody requirements, production standards, FSC reporting.

(\*\* additional costs involved for international UK certificate)

## Trees in a multifunctional landscape 833 (ENV 833)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 1 web-based period per week, 5 discussion classes per week

**Language of tuition** Module is presented in English

**Department** Department of Plant and Soil Sciences

**Period of presentation** Quarter 3

### Module content

Place and role of trees in multifunctional rural landscapes. Trees outside forests. Multipurpose trees. Trees and biodiversity. Trees and environmental services. Trees and sustainable development. Domesticated forests. Agroforestry (definition, classification, challenges and examples). Multiple use of forests and trees. Non-timber tree and forest products. Domestication of multipurpose trees. Forests and people. Trees and agricultural production systems (yield, interactions, synergy, competition, pests and diseases). Case-study examples from sub-Saharan Africa.

## Forest ecology and management 835 (FOR 835)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 1 web-based period per week, 20 discussion classes per block

**Language of tuition** Module is presented in English

**Department** Department of Plant and Soil Sciences

**Period of presentation** Semester 2



## Module content

Structure and function of natural forests, species composition and diversity, disturbance processes and regimes, recovery (succession) concepts and theory, biodiversity in forest ecosystems, energy and nutrient flux in natural forest ecosystems. Resource assessment and planning. Silvicultural systems and management of natural forests (and woodlands), natural regeneration and forest rehabilitation management for sustainability of natural forest ecosystems: multiple use for timber and non-timber forest products, forest rehabilitation (invader plants, mining, degraded forests).

## Environmental valuation and policy 826 (LEK 826)

**Module credits** 15.00

**NQF Level** 09

**Service modules** Faculty of Economic and Management Sciences

**Prerequisites** No prerequisites.

**Contact time** 1 lecture per week

**Language of tuition** Module is presented in English

**Department** Agricultural Economics Extension and Rural Develo

**Period of presentation** Semester 2

## Module content

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.

## Environmental change 881 (OMS 881)

**Module credits** 15.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Year

## Module content

This module involves the study of the causes and consequences of environmental change from multidisciplinary perspectives. A focus of this course is human environmental interactions. Past processes leading to environmental change will also be discussed. In a given period, the following will be investigated: principles of environmental change, causes and consequences of environmental change, Global warming and climate change: causes and impacts of climate change on natural resources; water, forests, biodiversity, land use and land cover change, environmental/Climate change and infectious disease, human dimensions of global change and Climate change political responses including the Kyoto protocol. Mitigation and adaptation strategies to climate change and effects of Climate change on sustainable development.

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## Regulations and rules

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.

## University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.