

Universiteit van Pretoria Jaarboek 2017

MSc Omgewingseconomie (02250405)

Duur van studie 1 jaar

Totale krediete 180

Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

This programme is coordinated in the Department of Agricultural Economics, Extension and Rural Development. 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.

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: Finale jaar

Kernmodules

Applied econometrics 810 (LEK 810)

Modulekrediete	15.00
Voorvereistes	LEK 725 of gelykwaardige module
Kontaktyd	1 praktiese sessie per week, 1 lesing per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Landbou-ekonomie, Voorligting
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Econometrics. Linear regression: assumptions of the linear regression model, OLS estimators and properties, hypothesis testing (single and multiple restrictions), forecasting, dummy variables. Violations of the linear model assumptions: multi-colinearity, heteroscedasticity, serial correlation and distributed lag models, (GLS estimators). Advanced topics: Quantitative response models (logit, tobit and probit analysis) co-integration, instrumental variables and 2-stage least squares.

Miniverhandeling: Omgewingseconomie 893 (LEK 893)

Modulekrediete	90.00
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Landbou-ekonomie, Voorligting
Aanbiedingstydperk	Jaar

Omgewingswaardasie en beleid 826 (LEK 826)

Modulekrediete	15.00
Diensmodules	Fakulteit Ekonomiese en Bestuurswetenskappe
Voorvereistes	Geen voorvereistes.
Kontaktyd	1 lesing per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Landbou-ekonomie, Voorligting
Aanbiedingstydperk	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.

Applied micro-economics 815 (LEK 815)

Modulekrediete 15.00

Kontaktyd 2 lesings per week, 1 praktiese sessie per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Landbou-ekonomie, Voorligting

Aanbiedingstydperk Semester 1

Module-inhoud

Economic models and empirical applications in food demand and agricultural production, welfare economics, risk analysis, and industrial organisation as it relates to the agricultural and food industry.

Natural resource and environmental economics 880 (LEK 880)

Modulekrediete 15.00

Kontaktyd 3 lesings per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Landbou-ekonomie, Voorligting

Aanbiedingstydperk Semester 2

Module-inhoud

Natural resource and environmental economics. This module reviews the origins and evolution of natural and environmental resource economics. It describes and studies the application of economic principles and analytical methods for sustainable development of renewable, non-renewable and environmental economics. Examine sources of inefficiency and causes as well as indicators of environmental degradation. The economics of pollution management: Concepts, policies and instruments. Sustainable management of natural and environmental resources. Introduction to natural and environmental resource policy. Economic valuation of natural and environmental resources.

Keusemodules

Natuurlike hulpbron ekonomie 886 (LEK 886)

Modulekrediete 15.00

Diensmodules Fakulteit Ekonomiese en Bestuurswetenskappe



Voorvereistes LEK 810 of gelykwaardige module

Kontaktyd 1 lesing per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Landbou-ekonomie, Voorligting

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The economics of natural resources. This course will introduce students to the techniques of optimisation overtime, optimal allocation and management of non-renewable and renewable resources, with case studies from Africa. The influence of property rights regimes on optimal natural resource use will also be stressed. The course consists of three main sections: Methods of dynamic optimisation; Theory of exhaustible and renewable resources and growth models; and Property rights and natural resource use with case studies from Africa.

Production economics 811 (LEK 811)

Modulekrediete 15.00

Kontaktyd 2 lesings per week, 1 praktiese sessie per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Landbou-ekonomie, Voorligting

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

This module follows on the final-year module LEK 421 and is taught at the intermediate level and now moves beyond the single input production function to analysis with multi-variable functions. Detailed exposure to production, cost and profit functions, and the duality that exists between these is a core element of the module. The focus will also be on the implications of the properties for the economic behavior of agents. At the end of this module students will have complete competence in algebraically solving for the cost minimisation and profit maximisation problems. Themes covered in the module are: Properties of production functions. Economic theory of cost. Economic Theory of Profits. Duality between the cost and production functions. Duality between the profit and production functions. Applied topics.

Quantitative methods for agricultural and environmental policy 814 (LEK 814)

Modulekrediete 15.00

Diensmodules Fakulteit Ekonomiese en Bestuurswetenskappe

Voorvereistes Geen voorvereistes.

Kontaktyd 1 lesing per week, 1 praktiese sessie per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Landbou-ekonomie, Voorligting

Aanbiedingstydperk Semester 1



Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Quantitative models for agricultural and environmental policy. This module will introduce students to applications of discrete choice and linear regression models to agricultural and environmental economics. These include demand systems, production functions and treatment effects/impact assessment models. The second part of the class will focus on mathematical programming and numerical methods including but not limited to multisector models, Input-output and programming models and social accounting matrices for consistent production planning, growth, income distribution and trade policy analysis. Computable general equilibrium models.

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
Akademiese organisasie	Landbou-ekonomie, Voorligting
Aanbiedingstydperk	Semester 1

Module-inhoud

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

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 vertroud 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.