



Universiteit van Pretoria Jaarboek 2017

MSc Bosboubestuur en die Omgewing (Gedoseer) (02250415)

Duur van studie 2 jaar

Totale krediete 180

Programinligting

Hierdie inligting is slegs in Engels beskikbaar.

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 Department of Plant and Soil Science.

The purpose of this option is to equip graduates with a biological and/or agricultural background to specialise further to obtain skills in environmental management and in sustainable forest resource use and management. On completion of the training, candidates should be conversant with the multifunctional nature of the forest resource base and be equipped to render advice concerning forest resource use and management with an understanding of the environmental consequences associated with exploitative use of natural resources. This includes grounding in forest resource use and management, including yield regulations in natural and commercial forest systems, participatory approaches to natural resource management, ecosystem structure, composition and function, ecosystem services, notions of ecosystem health, control of invasive species and community restoration, understanding of local communities, forestry and rural development, participatory planning and monitoring, the forest harvesting schedules and logistics, non-timber forest products, the science of wood and forest wood products utilisation, understanding of the basic economics of natural resources and social development and planning.

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.



Addisionele vereistes

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).

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

Algemene Inleiding tot bosbou 831 (FOR 831)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 bpb, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

What is forestry? Global forest resources. Natural forests and plantations in Southern Africa. Forestry systems (natural, multipurpose forests, plantation forestry, agroforestry). Sustainable forestry development policy and legislation. Silviculture and management of plantations. Forest certification. Effects of site and silviculture on wood quality. Forest harvesting, utilisation and forest wood products. Non-timber forest products of natural and plantation forests. Forests and woodlands management (forest planning; forest mensuration, growth and yield estimates and regulation). Environmental management of natural and plantation forests. Forestry research. Human resource management in forestry. This module will also have a field practical expedition to introduce students to the field experience.

Omgewingsreg 816 (ENV 816)

Modulekrediete 15.00

Diensmodules Fakulteit Regsgeleerdheid

Voorvereistes Geen voorvereistes.

Kontaktyd 1 webgebaseerde periode per week, 2 praktiese sessies per week, 1 lesing per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Dierkunde en Entomologie

Aanbiedingstydperk 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)

Modulekrediete	90.00
Voorvereistes	Geen voorvereistes.
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	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.

Omgewingsparadigmas 810 (ENV 810)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	5 besprekingsklasse per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Dierkunde en Entomologie
Aanbiedingstydperk	Semester 1

Module-inhoud

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

Keusemodules

Houtwetenskap en bosbouprodukte 834 (FOR 834)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	1 webgebaseerde periode per week, 20 bpb
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 2



Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Common characteristics of wood. Properties controlling the technical performance of wood. Natural growth phenomena affecting wood quality. Effect of site and silviculture on wood quality. The genetics of wood. Sawmilling and wood drying. Composite wood products. Deterioration of wood and wood products and methods of protection.

Internasionale omgewingsbestuurstelsels 822 (ENV 822)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 lesings oor tydperk van 1 week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Dierkunde en Entomologie

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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)

Bosbou-ekologie en -bestuur 835 (FOR 835)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 bpb, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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).



Strategiese omgewingsbestuur 822 (ENS 822)

Modulekrediete	15.00
Diensmodules	Fakulteit Regsgeleerdheid
Voorvereistes	Geen voorvereistes.
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Geografie, Geoinf en Meteor
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.

Omgewingsverandering 881 (OMS 881)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Onderrigtaal	Aparte klasse vir Engels en Afrikaans
Akademiese organisasie	Geografie, Geoinf en Meteor
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.

Bosbouhulpbrongebuiksbeplanning 832 (FOR 832)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 bpb, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 1



Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Forest planning. Forest mensuration. Growth and yield models and its application in growth and yield simulators. Quantitative silviculture. Yield regulation and forest economics. GIS and spatial analysis in forestry.

Omgewing en Grondhervorming 823 (ENS 823)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Geografie, Geoinf en Meteor

Aanbiedingstydperk Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Bome in 'n multifunksionele landskap 833 (ENV 833)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 5 besprekingsklasse per week, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Kwartaal 3

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Bosbouingenieurswese 833 (FOR 833)



Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 bpb, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Forest road engineering. Forest road system management. Forest operations analysis. Production planning. Strategic and tactical planning techniques. Forest operations design. Forest transportation systems. Harvesting management. Logging mechanics.

Bosboukunde 836 (FOR 836)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 besprekingsklasse per week, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Understand the development of modern plantation forestry. Commercial plantation species. Forest pests and diseases. Forestry site classification. Basis of forestry rotation length (economics, biological, wood quality). Effect of silvicultural practices on wood quality (managing wood quality). Forestry management regimes for different species and end products. Pros and cons of plantation forestry on the environment. Fire management. Propagation techniques for forestry systems and bio-renewable resources, ecological basis of silviculture and fire management systems.

Bosbouhulpbronekonomie en -beleid 831 (LEK 831)

Modulekrediete	20.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	1 besprekingsklas per week, 2 lesings per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 2



Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The economics of optimal management of cultivated and natural forests. Optimal rotation age and harvesting in timber production. Managing forest for their non-timber services. The multiple ecosystem services of forest and their contributions to human wellbeing. Economic valuation of the services of forest ecosystems. Forest resource rents and their capture and distribution under different property rights regimes. Regulation and taxation of forest users. Designing logging concessions and forest exploitation policies. Forest resource accounting and optimal management of the resource rents. Communities and forests. Case study examples from Sub-Saharan Africa.



Kurrikulum: Finale jaar

Minimum krediete: 180

Kernmodules

Miniverhandeling 891 (ENV 891)

Modulekrediete 90.00

Voorvereistes Geen voorvereistes.

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie 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.

Algemene Inleiding tot bosbou 831 (FOR 831)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 bpb, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

What is forestry? Global forest resources. Natural forests and plantations in Southern Africa. Forestry systems (natural, multipurpose forests, plantation forestry, agroforestry). Sustainable forestry development policy and legislation. Silviculture and management of plantations. Forest certification. Effects of site and silviculture on wood quality. Forest harvesting, utilisation and forest wood products. Non-timber forest products of natural and plantation forests. Forests and woodlands management (forest planning; forest mensuration, growth and yield estimates and regulation). Environmental management of natural and plantation forests. Forestry research. Human resource management in forestry. This module will also have a field practical expedition to introduce students to the field experience.

Omgewingsreg 816 (ENV 816)

Modulekrediete 15.00

Diensmodules Fakulteit Regsgeleerdheid



Voorvereistes	Geen voorvereistes.
Kontaktyd	1 webgebaseerde periode per week, 2 praktiese sessies per week, 1 lesing per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Dierkunde en Entomologie
Aanbiedingstydperk	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.

Omgewingsparadigmas 810 (ENV 810)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	5 besprekingsklasse per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Dierkunde en Entomologie
Aanbiedingstydperk	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.

Keusemodules

Stratetiese omgewingsbestuur 822 (ENS 822)

Modulekrediete	15.00
Diensmodules	Fakulteit Regsgeleerdheid
Voorvereistes	Geen voorvereistes.
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Geografie, Geoinf en Meteor
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.

Omgewingsverandering 881 (OMS 881)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Onderrigtaal Aparte klasse vir Engels en Afrikaans

Akademiese organisasie Geografie, Geoinf en Meteor

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.

Bosboukunde 836 (FOR 836)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 besprekingsklasse per week, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Understand the development of modern plantation forestry. Commercial plantation species. Forest pests and diseases. Forestry site classification. Basis of forestry rotation length (economics, biological, wood quality). Effect of silvicultural practices on wood quality (managing wood quality). Forestry management regimes for different species and end products. Pros and cons of plantation forestry on the environment. Fire management. Propagation techniques for forestry systems and bio-renewable resources, ecological basis of silviculture and fire management systems.

Bome in 'n multifunksionele landskap 833 (ENV 833)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.



Kontaktyd 5 besprekingsklasse per week, 1 webgebaseerde periode per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Kwartaal 3

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Internasionale omgewingsbestuurstelsels 822 (ENV 822)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 20 lesings oor tydperk van 1 week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Dierkunde en Entomologie

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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)

Omgewing en Grondhervorming 823 (ENS 823)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Geografie, Geoinf en Meteor

Aanbiedingstydperk Jaar

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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.

Houtwetenskap en bosbouprodukte 834 (FOR 834)

Modulekrediete 15.00

Voorvereistes Geen voorvereistes.

Kontaktyd 1 webgebaseerde periode per week, 20 bpb

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Common characteristics of wood. Properties controlling the technical performance of wood. Natural growth phenomena affecting wood quality. Effect of site and silviculture on wood quality. The genetics of wood. Sawmilling and wood drying. Composite wood products. Deterioration of wood and wood products and methods of protection.

Bosbouhulpbronekonomie en -beleid 831 (LEK 831)

Modulekrediete 20.00

Voorvereistes Geen voorvereistes.

Kontaktyd 1 besprekingsklas per week, 2 lesings per week

Onderrigtaal Module word in Engels aangebied

Akademiese organisasie Plant- en Grondwetenskappe

Aanbiedingstydperk Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

The economics of optimal management of cultivated and natural forests. Optimal rotation age and harvesting in timber production. Managing forest for their non-timber services. The multiple ecosystem services of forest and their contributions to human wellbeing. Economic valuation of the services of forest ecosystems. Forest resource rents and their capture and distribution under different property rights regimes. Regulation and taxation of forest users. Designing logging concessions and forest exploitation policies. Forest resource accounting and optimal management of the resource rents. Communities and forests. Case study examples from Sub-Saharan Africa.



Bosbouhulpbrongebruiksbeplanning 832 (FOR 832)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 bpb, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 1

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Forest planning. Forest mensuration. Growth and yield models and its application in growth and yield simulators. Quantitative silviculture. Yield regulation and forest economics. GIS and spatial analysis in forestry.

Bosbouingenieurswese 833 (FOR 833)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 bpb, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 2

Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

Forest road engineering. Forest road system management. Forest operations analysis. Production planning. Strategic and tactical planning techniques. Forest operations design. Forest transportation systems. Harvesting management. Logging mechanics.

Bosbou-ekologie en -bestuur 835 (FOR 835)

Modulekrediete	15.00
Voorvereistes	Geen voorvereistes.
Kontaktyd	20 bpb, 1 webgebaseerde periode per week
Onderrigtaal	Module word in Engels aangebied
Akademiese organisasie	Plant- en Grondwetenskappe
Aanbiedingstydperk	Semester 2



Module-inhoud

*Hierdie inligting is slegs in Engels beskikbaar.

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).

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.