

'n Nuwe geleentheid in Geowiskundige Modellerling

Ons is opgewonde om aan te kondig dat studente aan die NWU vanaf Januarie 2018 vir 'n BSc in Geografie en Toegepaste Wiskunde kan registreer. Hierdie kombinasie sal op die Potchefstroomkampus van die NWU aangebied word. Het jy 'n talent vir Geografie sowel as vir Wiskunde? Stel jy daarin belang om Wiskunde te gebruik om omgewingskwessies soos die klimaat, waterhulpbronne en lugbesoedeling te modelleer? Dan kan die BSc (Geografie en Toegepaste Wiskunde) dalk die kursus vir jou wees. Hierdie graad is ontwerp om studente toe te rus met die soort hoëvlakvaardigheid wat vir die modellerling van juis sulke kwessies vereis word. Met hierdie graad as vertrekpunt sal studente hulle honneursstudies in Geografie, Hidrologie of Toegepaste Wiskunde kan volg.

Daarbenewens sal studente wat ná hierdie graad 'n BSc Honneurs in Omgewingswetenskappe (Geografie/ Hidrologie) voltooi, by die SARNWB (Suid-Afrikaanse Raad vir Natuurwetenskapsberoep) as professionele omgewingswetenskaplikes kan registreer.

Die goedgekeurde sillabus vir hierdie graad word op die volgende bladsy gegee. Hierdie sillabus sal geleidelik ingestel word met die eerste jaar wat in 2018 sal begin.

Program Uitleg

Eerste Jaar	Tweede Jaar	Derde Jaar
Eerste Semester		
Kr Module Kode	Kr Module Kode	Kr Module Kode
12 GEOG111 Inleiding tot Fisiese Geografie	16 GEOG211 Aspekte van Fisiese Geografie	32 GEOG311 GIS en Afstandswaarneming
12 NPHY111 Basiese Fisika I	8 MTHS211 Gevorderde Calculus I	16 APPM312 Numeriese metodes vir Parsiële Differensiaalvergelykings
12 CMPG115 Programmering vir Ingenieurs	8 MTHS212 Lineêre Algebra I	
12 MTHS111 Inleidende Algebra en Calculus I	8 GEOG212 Omgewingstermodinamika	16 APPM311 Parsiële Differensiaalvergelykings
12 ALDE/A111	8 APPM212 Differensiaalvergelykings	
	12 WVNS211	
Totaal 60	Totaal 60	Totaal 64
Tweede Semester		
Kr Module Kode	Kr Module Kode	Kr Module Kode
12 NPHY121 Basiese Fisika II	16 GEOG221 Aspekte van Menslike Geografie	32 GEOG321 Toegepaste Geografie vir Afrika
12 GEOG121 Inleiding tot Menslike Geografie	8 MTHS224 Toegepaste Lineêre Algebra	16 APPM322 Optimalisering
12 STTN122 Inleidende Statistieks	8 NPHY222 Optika en Golwe	16 APPM321 Dinamiese Stelsels
12 MTHS121 Inleidende Algebra en Calculus II	8 APPM222 Numeriese Metodes	
12 ALDE/A122	8 MTHS223 Ingenieursanalise	
	12 WVNS221	
Totaal 60	Totaal 60	Totaal 64



BSc Geography and Applied Mathematics



The road to your future.

A new opportunity in
Geo-mathematical modelling

We are excited to announce that as of January 2018 students will be able to register for a BSc in Geography and Applied Mathematics at NWU. This combination will be offered at the Potchefstroom campus of NWU. Do you have a talent for both Geography and Mathematics? Are you interested in using Mathematics to model Environmental issues such as the climate, water resources and air pollution? Then the BSc (Geography and Applied Mathematics) may well be for you. This degree has been designed to equip students with the kind of high level skill required for the modelling of precisely such issues. With this degree as a starting point, students will be able to pursue Honours studies in either of Geography, Hydrology or Applied Mathematics.

In addition, students who subsequent to this degree complete a BSc-Honours degree in Environmental Science (Geography/Hydrology), will be able to register as professional Environmental Scientists with SACNASP (South African Council for Natural Scientific Professions).

The approved syllabus for this degree is presented on the next page. This syllabus will be gradually unrolled, with the first year becoming active in 2018.



Programme Layout

First Year	Second Year	Third Year
	First Semester	
Cr Module Code	Cr Module Code	Cr Module Code
12 GEOG111 Introduction to physical geography	16 GEOG211 Aspects of Physical Geography	32 GEOG311 GIS and remote sensing
12 NPHY111 Basic Physics I	8 MTHS211 Advanced Calculus I	16 APPM312 Numerical methods for Partial Differential Equations
12 CMPG115 Programming for Engineers	8 MTHS212 Linear Algebra 1	
12 MTHS111 Introductory algebra and calculus I	8 GEOG212 Environmental Thermodynamics	16 APPM311 Partial Differential Equations
12 ALDE/A111	8 APPM212 Differential Equations	
	12 WVNS211	
Total 60	Total 60	Total 64
	Second Semester	
Cr Module Code	Cr Module Code	Cr Module Code
12 NPHY121 Basic Physics II	16 GEOG221 Aspects of Human Geography	32 GEOG321 Applied Geography for Africa
12 GEOG121 Introduction to human geography	8 MTHS224 Applied Linear Algebra	16 APPM322 Optimisation
12 STTN122 Introductory Statistics	8 NPHY222 Optics and Waves	16 APPM321 Dynamical Systems
12 MTHS121 Introductory algebra and calculus II	8 APPM222 Numerical Methods	
12 ALDE/A122	8 MTHS223 Engineering Analysis	
	12 WVNS221	
Total 60	Total 60	Total 64

Contact Information

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Disclaimer: Study information is subject to change and is a summary of the general fields of study. This information was compiled for introduction purposes and the North-West University accepts no liability for inaccuracies that may occur in this guide.