



Nelson Mandela  
Metropolitan  
University

*for tomorrow*

## Faculty of Science

*Discovering tomorrow*



# Careers in Science

The Faculty of Science offers qualifications for a variety of careers within its many departments. Seek your chosen field of interest below, to see what you should be studying.

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**Agricultural Management** is the application of economic and management principles used in producing agricultural products.

**Careers:** Farmer, farm manager, agricultural advisor, managerial positions in agriculture-related businesses.

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**Biochemistry** is the study of living cells (plant, animal and micro-organisms).

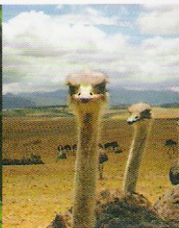
**Careers:** Medical research; agriculture, food and pharmaceutical industries; municipalities; law enforcement; sport science; nutritional research and teaching.

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**Botany** is the study of plants and algae.

**Careers:** Agriculture; forestry; horticulture; environmental practitioner; park ranger; conservation biologist; plant disease investigator; aquaculture; marine biologist.

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**Chemistry** is the study of the composition, structure and application of matter.

**Careers:** Chemical industry (fertilisers, chemicals, fuels, paint, cosmetics, pharmaceuticals etc); research institutions; education.

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**Computer Science** gives students a thorough knowledge of computer applications and software.

**Careers:** Programmer; software engineer; systems analyst; network specialist; web developer; application specialist; IT manager; mobile computing specialist.





**Game Ranch Management** prepares students for life in one of South Africa's fastest growing industries.

**Careers:** Game ranchers; game ranch managers; professional hunters; nature conservationists.

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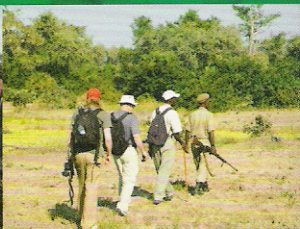
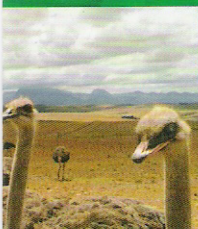
**Geography** examines the relationship between human activities and the environment.

**Careers:** Urban and rural planning; water quality management; soil conservation; transport coordination.

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**Geology** is the study of the structure of the earth and in particular materials (rocks and minerals).

**Careers:** Mining; geoscience; water affairs; environmental affairs; consulting; civil engineering.



**Microbiology** is the study of organisms too small to be seen by the naked eye (eg bacteria) and their relationship with humans, plants and animals.

**Careers:** Medical and veterinary microbiology; biotechnology; environmental science; genetics; fermentation science; animal and plant pathology; health sciences; food industry.

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**Mathematics** is the study of quantity, structure, space, change, and related topics of pattern and form.

**Careers:** Education; systems design; actuarial science; environmental modeling.

**Physics** is the study of nature and matter as well as the laws that govern them.

**Careers:** Industry; research institutes; materials development; telecommunications; energy harnessing; biophysics; astronomy; nanotechnology; education.

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**Polymer Technology** involves the study of plastics, paint and rubber technology as well as analytical chemistry.

**Careers:** Paint, plastics, rubber and motor industries; chemical and pharmaceutical manufacturing.

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**Statistics** has become an essential tool for financial analysts and managers, government, business, industry and academic disciplines in analysing data and modelling real processes to make predictions and decisions.

**Careers:** Financial institutions; science; engineering; business and financial institutions; industry; government.

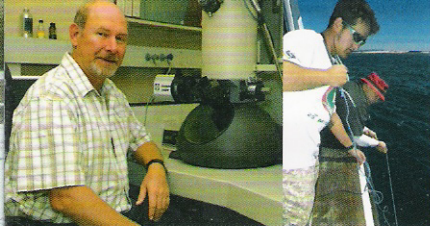
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**Zoology** is the study of animals and how they function and interact with plants, other animals and the environment.

**Careers:** Marine biologist, fisheries scientist; water quality analyst; environmental practitioner; ecotourism; game management; aquaculture.







## Faculty of Science

South Africa is critically short of scientists who can contribute to the sustainable development of the country. A qualification in Science also leads to an interesting and rewarding career.

At NMMU Science graduates are sought after because of the high level of training they receive within an ideal environment by staff who are nationally and internationally recognised for their expertise.

We offer BSc degrees in many fields, and national diplomas in analytical chemistry, polymer chemistry, agricultural management and game ranch management.



# Get connected:

## Diploma Programmes

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A full list of qualifications in the Science Faculty can be viewed at [www.nmmu.ac.za/science](http://www.nmmu.ac.za/science)

**Early closing date for applications: 1 August**