



UNIVERSITY OF
KWAZULU-NATAL™

INYUVESI
YAKWAZULU-NATALI

School of Agricultural, Earth and Environmental Sciences

**College of Agriculture, Engineering
and Science**

INSPIRING GREATNESS



**DON'T ACCEPT WHAT IS,
ALWAYS ASK WHAT IF.**

UKZN's School of Agricultural, Earth and Environmental Sciences is one of five Schools housed within the College of Agriculture, Engineering and Science. The bulk of the School is located on the lush and leafy Carbis Road campus in Pietermaritzburg.

The Westville campus hosts the disciplines of Geography and Geological Sciences, and Geography is also represented on the Howard College campus. This diverse School employs more than 80 full-time academic staff – many of whom are productive and internationally recognised researchers and gifted teachers – and nearly 70 support staff, including skilled laboratory technicians. There are currently 1400 undergraduate students registered, whilst 750 postgraduate students are engaged in Honours, Masters, Doctoral and Postdoctoral research.

The School's world-class teaching and research facilities include laboratories on all three campuses, multi-million rand, cutting-edge research equipment, as well as a research farm located near the Carbis Road campus. The School offers rich, internationally respected academic programmes in Agriculture, Dietetics and Human Nutrition, Environmental Sciences, Food Security, Geography, Geology, and Biophysical Sciences. Learning is delivered by a motivated team of dedicated academic staff, who ensure that students are inspired and emerge as highly employable in their respective specialisations.



AREAS OF SPECIALISATION

The School of Agricultural, Earth and Environmental Sciences has a three-part mission of teaching, research and community engagement.

The School strives to provide a learning environment that prepares students to acquire skills necessary for meeting societal needs. We seek to produce wholesome graduates who are not only technically qualified, but also have the critical and creative thinking skills to give them the competitive edge in the workplace, particularly as entrepreneurs dedicated to the betterment of the world.

The School has had a significant influence on this continent for over sixty years – from pigs, poultry, papaws and pecans through to farm finance, food security and agricultural development.

Areas of specialisation within UKZN's School of AEES include:

- Agricultural Economics;
- Agricultural Extension;
- Agricultural Meteorology;
- Agricultural Management;
- Animal and Poultry Science;
- Crop Science;
- Dietetics and Human Nutrition;
- Food Security;

- Geography and Environmental Management;
- GIS and Earth Observation;
- Geological Sciences;
- Horticultural Science;
- Hydrology;
- Plant Breeding;
- Plant Pathology; and
- Soil Science.

The School has three world class research centres in the African Centre for Crop Improvement, the African Centre for Food Security and the Centre for Transformative Agricultural and Food Systems.

The Farmer Support Group is also part of the School.

DEGREES OFFERED

Undergraduate

- **Bachelor of Science**

UKZN's School of Agricultural, Earth and Environmental Sciences offers a three-year degree leading to a Bachelor of Science (BSc), based on majors and on focused programmes.

SAEES offers majors in:

- Crop Science
- Geography

- Hydrology
- Plant Pathology
- Soil Science

SAEES offers programmes in:

- Crop and Horticultural Science
- Environmental Science
- Geological Science

- **SAEES also offers a four year degree leading to a Bachelor of Science in Agriculture, in:**

- Agribusiness (Animal Science Stream)
- Agribusiness (Crop Science Stream)
- Agribusiness (Horticultural Science Stream)
- Agribusiness (Wildlife Management Science Stream)
- Agricultural Economics
- Agricultural Plant Sciences (Crop Science Stream)
- Agricultural Plant Sciences (Horticultural Science Stream)
- Agricultural Plant Sciences (Plant Breeding Stream)
- Animal and Poultry Science
- Plant Pathology
- Soil Science

SAEES offers the following additional Bachelors' degrees:

- Bachelor of Agricultural Management
- Bachelor of Agriculture in Agricultural Extension
- Bachelor of Science in Dietetics and Human Nutrition

Minimum entrance requirements:

- NSC degree pass with Maths, English, Life Orientation and Agricultural Science/Physical Science/Life Sciences at level 4 or above;
- Admission points required: 28-48 (highest scoring students taken first)
- Closing date for applications is 30 September

Postgraduate

- **Bachelor of Science (Honours); Bachelor of Agriculture (Honours); Bachelor of Agricultural Management (Honours):**

A one- year specialist programme leading to an Honours degree. Applicants must have a relevant 3-year or equivalent qualification to be considered for Honours. Spaces are very limited and a careful selection process is followed. The closing date for applications is 30 September.



- **Postgraduate Diploma in Food Security offered within the School**
- **Master of Science; Master of Science in Agriculture; Master of Agriculture:**

Both coursework and research Masters are offered. All Masters programmes include rigorous research under the supervision of an academic staff member. Applicants must have a relevant Honours or equivalent qualification to be considered for a Masters. Spaces are limited and a careful selection process is followed. This degree takes a minimum of one year. The application date is open.

- **Doctor of Philosophy; Doctor of Science in Agriculture:**

A Doctoral programme is offered where students engage in novel research supervised by academic members of staff. This typically involves three years of study.

- **Postdoctoral study:**

Remunerated, postdoctoral research positions are available on application.

Applications are accepted throughout the year.

Visit <http://caes.ukzn.ac.za>

CAREER OPPORTUNITIES

Owing to the diversity within SAEES there is a wide range of career opportunities.

The qualifications we offer in the Agricultural Sciences will provide graduates career opportunities as:

- Agricultural Economists
- Agrometeorologists
- Agroforesters
- Animal Scientists
- Crop Scientists
- Community Development Workers
- Extension Officers
- Dietitians
- Food Security Analysts and Specialists
- Forest Scientists
- Horticultural Scientists
- Human and Animal Nutritionists
- Plant Breeders
- Poultry Scientists
- Soil Scientists
- Hydrologists

The qualifications we offer in the Geological Sciences will provide graduates career opportunities in:

- Mining (Mining Geologists)
- Exploration (Exploration Geologists)
- Engineering Geology/Geotechnical Engineering
- Minerals Research (MINTEK)
- Science Councils (Council for Geoscience, Nuclear Energy Corporation)
- Research and Teaching (Academia)
- Oil and Petroleum Industry
- Investment Analysis
- Environmental Planning
- Geological Consultancy

The qualifications we offer in Geography will provide graduates career opportunities as:

- Geographers
- Urban Planners
- Rural Development Practitioners
- GIS and Remote Sensing Analysts
- Climatologists
- Environmental Scientists

CONTACT DETAILS

School of Agricultural, Earth and Environmental Sciences

Westville campus

Tel: 031 260 7322

Fax: 031 260 7317

Pietermaritzburg campus

Tel: 033 260 5515

Fax: 033 260 6094

Email: saees@ukzn.ac.za

Website: <http://saees.ukzn.ac.za>

Handbook:

For full course codes and information, see the College of Agriculture, Engineering and Science handbook at <http://www.caes.ukzn.ac.za>

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