

applied sciences

AGRICULTURAL MANAGEMENT

AGRICULTURE (Animal Production or Crop Production)

Agriculture is an applied science involved in many fields in the food and fibre industry. The aim of the courses is to train managers for the agricultural industry. The courses equip the student with the skills and techniques necessary for the analysis of agricultural production systems and the solving of agricultural management, technical and related problems in a variety of industries.

BIOTECHNOLOGY

Biotechnology is the industrial use of living organisms (or parts of organisms) to produce food, drugs and other products. The oldest biotechnologies include fermentation and plant and animal hybridization, while the newest technologies range from protein separation techniques to genomics, combinational chemistry and bioremediation. Graduates will be competent in the theoretical, applied and general skills across a variety of scientific and technological disciplines.

CHEMISTRY

Graduates of this course are able to apply basic principles and techniques of chemical quantitative and qualitative analysis, quality control of raw materials and finished products, and research and development. Students benefit from the practical hands-on laboratory skills component with up-to-date equipment as well as direct exposure to the work situation. Opportunities exist for graduates to pursue further educational qualifications.

CONSUMER SCIENCE: FOOD AND NUTRITION

The course is designed to train students for the food manufacturing and retail industries. Students are equipped with the food knowledge and skills required for the development, production, management and marketing of consumer food products.

ENVIRONMENTAL HEALTH

Environmental health practitioners (EHPs) are committed to improving environmental and occupational health. The task of the EHP is determined by legislation and includes the following: Industrial, commercial and housing development; safe water supply; food safety; occupational health and safety; pollution control (air, water, soil, radiation and environmental noise pollution); disease control; health surveillance;

research; health promotion and community development; waste management; pest control; transport safety; public relations; as well as accident and disaster control.

ENVIRONMENTAL MANAGEMENT

Graduates are equipped to manage environmental aspects such as water demand, energy and transport impacts, environmental impact assessments and environmental policies. Employment opportunities exist in government departments such as the Department of Environmental Affairs and Tourism, Water Affairs and Forestry, industry and consulting companies. Graduates are employed as Environmental Law Consultants, Environmental and Occupational Management Systems Specialists, Environmental Impact Assessment Specialists and Environmental Auditors.

FOOD TECHNOLOGY

Food Technology is the scientific study of the large-scale production and preservation of foods as well as the development and analysis of foodstuffs in industrial food processing facilities. Food technologists are involved in the following areas of food manufacture: quality assurance, processing technology, chemistry and microbiology. In addition, they are trained to ensure that both legal and industrial food standards are monitored and maintained prior to marketing. They are also part of research teams and have to solve technical problems when raw materials are converted to preserved foods in factories.

HORTICULTURE

Horticulture is the science of the propagation, cultivation and maintenance of plants and the use of plant material for the improvement of the environment. With population growth and new scientific and technological challenges presenting themselves daily, this course may lead to a career rich in rewards and with excellent job opportunities. These may be in the wholesale production and or retailing of plants and or the construction and maintenance of gardens, landscape areas and sports fields.

LANDSCAPE TECHNOLOGY

The course equips practice-orientated professionals with a knowledge of landscape design and the utilisation of ornamental plants, as well as the proficiency to implement and manage landscape projects. The increasing demand for environmental quality has led to the rapid



BELLVILLE CAMPUS
CAPE TOWN CAMPUS

Tel +27 (0)21 959 6569 Fax +27 (0)21 959 6118
Tel +27 (0)21 460 3176/53 Fax +27 (0)21 460 3217

www.cput.ac.za



expansion of landscape planning as a career concentrating on the development of aesthetically pleasing, functional and ecologically stable landscape spaces for the community.

MATHEMATICAL TECHNOLOGY

Graduates can apply a broad range of mathematical, statistical and computational techniques in the analysis of data, both quantitatively and qualitatively. Students benefit from the hands-on field work component within industry, engineering and business. Direct exposure to the work situation provides the graduate with a well-rounded background required for a career in modern technology.

NATURE CONSERVATION

Graduates are equipped with a comprehensive and relevant range of technical, managerial, research, communication and life skills for employment in the field of nature conservation. Management of protected areas, research, environmental education, ecotourism, law enforcement, and alien plant control.

OCEANOGRAPHY

Oceanographic technicians form an integral part of any oceanographic research team. The course equips students with the skills and knowledge to provide the technical and logistical support that is vital for the efficient running of research programmes, including the collection and processing of a wide variety of data both at sea and on land. Tasks can vary from basic collection of fish samples to complex processing of data from satellites. Duties include the operation of sophisticated electronic equipment and computers, the basic tools of modern oceanography.

The Cape Peninsula University of Technology offers more than 70 career-focussed under and postgraduate courses at the following faculties:

Applied Sciences
Business
Education and Social Sciences

Engineering
Health and Wellness Sciences
Informatics and Design



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