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The information contained in this brochure was accurate at the time of publication (7 December 2011). For updates, please go to the Unisa website http://www.unisa.ac.za or to the Unisa mobi site http://mobi.unisa.ac.za.
Introduction

Short learning programmes (SLPs), more colloquially known as “short courses”, are how we as a college respond to the short-term needs of our communities and nation. We live in a time when knowledge is expanding constantly, new knowledge becomes old in a short period of time and when new areas of knowledge are being created constantly.

As a college, we have valuable SLPs in partnership with government NGOs and communities responding to the needs of society.

In agriculture, we are equipping communities in terms of business skills and equipping community organisations in terms of eradication, hunger and malnutrition.

Climate change and serving the planet are prominent in everyone’s minds and hearts, but not always in actions. Together with the College of Law and the Department of Environmental Affairs and Tourism, we are equipping the green scorpions to become custodians of environmental matters.

Knowledge and new knowledge are captured in information systems. The geographical information systems SLP is vital in capturing social and physical knowledge to allow us to make good decisions about our planet.

Finally, the health and nutrition in adverse conditions ensures that health practitioners continuously keep abreast of health issues to ensure a better life for all.

We are proud to present our short learning programmes to you and we welcome you as partners in addressing issues in society as students of our short learning programmes.
### Short Course in the Introduction to Agribusiness Management (72621)

<table>
<thead>
<tr>
<th><strong>Duration:</strong> Six months</th>
<th><strong>NQF Level 5</strong></th>
<th><strong>Credits:</strong> 12</th>
</tr>
</thead>
</table>

**Purpose:**
To target managers and beginners in these businesses who were previously disadvantaged but seek to expand their areas of knowledge to assist them to adapt in this fast changing discipline

**Target group:**
People managing small, medium and micro enterprises (SMME) without any formal academic training in agribusiness management

**Admission requirements:**
Senior Certificate or an equivalent NQF level 4 qualification

**Registration periods:**
December to February and May to June

**Module: Introduction to Agribusiness Management (SCIAM01) - 12 Credits**

**Content:**
- The concept and framework of agribusiness management and its objectives
- Financial statements in the respective agribusinesses of the participants or in simulated agribusinesses
- Financial statement analyses
- Agribusiness budgets
- Sources and procedures for credit application in South Africa
- Apply for credit for the agribusinesses that the students have already identified
Enquiries for the Short Learning Programme in Household Food Security (76104) should be directed to:

Mrs A Koekemoer  
Department of Agriculture and Animal Health  
Office B-354, Unisa Florida Campus  
Tel: 011 471 2143  
Email: tkoekea@unisa.ac.za

Programme in Household Food Security (76104)

| Duration: One year | NQF Level 5 | Credits: 72 |

**Purpose:**  
This programme will equip individuals who wish to become household food security facilitators with the skills that they can use to help empower communities to improve household food security, health and nutrition and thus contribute to integrated rural development. The programme seeks to improve conditions in rural and peri-urban areas through development of capacity, skills, and values within these communities to meet long-term goals of sustainable development and poverty alleviation within the context of food security using a sustainable livelihoods approach.

**Target group:**  
The target group will be active community development workers or community members who are willing to work with vulnerable individual households to develop food security, health and improved nutrition. The programme is designed for individuals from rural and peri-urban areas who have successfully completed an NQF level 4 qualification. The individuals should be working in communities (both rural and peri-urban) as volunteers or community development workers. Unemployed youth wanting to serve the community may also be selected.

The individuals are recruited in groups of 20 to 25 students within a 50 km radius, with a promoter from the same community to be linked to a partner organisation for delivery of the programme. An organisation can also apply to enroll their community development workers or volunteers. The target group could also include assistants to community nutritionists, health workers or agriculturalist extension advisors from NGOs or government departments.

**Admission requirements:**  
Senior Certificate or completion of Grade 12 or an equivalent NQF level 4 qualification. Students will be selected according to criteria. Application forms for admission are available from the office of the Programme in Household Food Security and should be received month before registration commence.

**Registration periods:**  
December to January and May to June. Cost to be provided on request.

**Module: Introduction to Food Security Concepts (PHFS01K) - 12Credits**

**Content:**
- Food security systems and components at national, community and household levels; a household’s ability to achieve food security; millennium development goals; Traditional community food security systems
- Preparation of status reports based on the requirements opinions and perceptions of the households on household food insecurity and related issues in a specific village/area taking into consideration the current situation of nutrition in South Africa as well as attitudes towards micro-scale food production and accessibility
- Key aspects of current policies and strategies that affect household food security: SA, NEPAD and SADC
- Formulation of written requests for assistance from various stakeholders

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<table>
<thead>
<tr>
<th>Module: Participatory Extension for Household Food Security (PHFS02L) - 12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
</tr>
<tr>
<td>● Participatory facilitation techniques relevant to the context of different households</td>
</tr>
<tr>
<td>● Implications of local development dynamics for household livelihoods, control of assets and food accessibility</td>
</tr>
<tr>
<td>● Determination of local food security status, challenges and processes</td>
</tr>
<tr>
<td>● Mobilising and facilitating households to analyse their own needs, basic assets and to construct household food security vision and action plans</td>
</tr>
<tr>
<td>● Facilitating households in order to help them implement, monitor and refine food security action plans</td>
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</table>

<table>
<thead>
<tr>
<th>Module: Participatory Extension for Household Food Security (PHFS02L) - 12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
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<tr>
<td>● Identify natural resources in the local area</td>
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<td>● Assess the state of natural resources in the area</td>
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<tr>
<td>● Determine the impact of the natural resource use systems on people and the environment</td>
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<tr>
<td>● Analyse resources in terms of their contribution to food security</td>
</tr>
<tr>
<td>● Explore knowledge systems for alternative resource management options</td>
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<tr>
<td>● Interventions for improved natural resource utilisation and livelihood strategies</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Module: Food Behavior and Nutrition (PHFS04N) - 12 Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Content:</strong></td>
</tr>
<tr>
<td>● Basic nutrition principles and food based guidelines</td>
</tr>
<tr>
<td>● Documentation of the levels of the household’s nutrition, knowledge, food habits, cultural and behavioral practices</td>
</tr>
<tr>
<td>● Assessing household health and sanitation, environment and hygiene practices</td>
</tr>
<tr>
<td>● Introduction to local health and social services</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Module: Optimising Household Food Production (PHFS05P) - 12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
</tr>
<tr>
<td>● Working with information about different community farming systems</td>
</tr>
<tr>
<td>● Teaching households about viable farming practices</td>
</tr>
<tr>
<td>● Planning, designing and implementing farming practice experiments</td>
</tr>
<tr>
<td>● Monitoring and evaluation of farming practice experiments</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Module: Food Resource Management (PHFS06Q) - 12 Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
</tr>
<tr>
<td>● Household livelihood profiles and food access strategies relevant to food security status</td>
</tr>
<tr>
<td>● Household and consumer practices relating to the allocation and use of resources</td>
</tr>
<tr>
<td>● Food storage, processing and preparation practices</td>
</tr>
<tr>
<td>● Appropriate and indigenous technologies that add value and increase shelf life of food</td>
</tr>
<tr>
<td>● The development of a household food resource plan for improved food and nutrition security</td>
</tr>
</tbody>
</table>
### Department of Environmental Sciences

Enquiries for the Short Learning Programmes offered through the Department of Environmental Sciences should be directed to:

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Office Location</th>
<th>Tel</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mrs C J Cromhout</td>
<td>Department of Jurisprudence</td>
<td>Office 4-079, Cas Van Vuuren, Unisa</td>
<td>012 429 8495</td>
<td><a href="mailto:greenscorpions@unisa.ac.za">greenscorpions@unisa.ac.za</a></td>
</tr>
<tr>
<td>Ms H Samuels</td>
<td>Department of Environmental Sciences</td>
<td>Office 118, Block B, Unisa Florida Campus</td>
<td>011 471 3138</td>
<td><a href="mailto:hsamuels@unisa.ac.za">hsamuels@unisa.ac.za</a></td>
</tr>
<tr>
<td>Mr Manoko Moima</td>
<td>Department of Environmental Sciences</td>
<td>Office 118, Block B, Unisa Florida Campus</td>
<td>011 471 2577</td>
<td><a href="mailto:moimams@unisa.ac.za">moimams@unisa.ac.za</a></td>
</tr>
</tbody>
</table>

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**Advanced Short Course in Becoming an Environmental Management Inspector (75825)**

**Duration:** Six months  
**NQF Level:** 8  
**Credits:** 12

**Purpose:**  
This SLP will be useful to students who want to pursue a career in environmental compliance inspection and investigating suspected non-compliance. The competencies needed include the understanding of the powers, objectives and principles of inspectors, the ability to interact efficiently with all stakeholders, to develop data sources, manage data and handle conflict.

**Target Group:**  
Government and municipal officials and members of the public sector involved with environmental compliance

**Admission Requirements:**  
BA Degree or an equivalent NQF level qualification

**Registration Periods:**  
April and September

**Module:** Becoming an Environmental Management Inspector (BEMI014) - 12 Credits

**Content:**  
- Mandate, functions and powers  
- Ethics  
- Networks and resources  
- Operational conflict management
## Advanced Short Course in Environmental Management Enforcement and Prosecution - Practical Applications (7585X)

<table>
<thead>
<tr>
<th>Duration: Six months</th>
<th>NQF Level 8</th>
<th>Credits: 12</th>
</tr>
</thead>
</table>

### Purpose:
This advanced short course will be useful to students who want to develop competencies in conducting environmental compliance inspections and investigating suspected non-compliance and gaining experience in the practical application of the legal principles of Environmental compliance and enforcement with special emphasis on Environmental law.

### Target group:
Government and municipal officials and members of the public sector involved with environmental compliance.

### Admission requirements:
- BA Degree or an equivalent NQF level qualification.

### Registration periods:
April and September.

### Module: Environmental Management Enforcement and Prosecution (Practical Applications) (EMEP01P) - 12 Credits

#### Content:
- The principles of environmental compliance and enforcement
- Environmental compliance and enforcement legislation
- The mandate, function and ethics of EMIs
- Networks and resources available to an EMI
- Operational conflict management
- Health and Safety for EMIs
- The principles for conducting compliance inspections and investigating suspected non-compliance with environmental legislation
- Enforcement in cases of non-compliance with environmental legislation.

## Advanced Short Course in the Legal Context for Environmental Management Compliance and Enforcement (75833)

<table>
<thead>
<tr>
<th>Duration: Six months</th>
<th>NQF Level 8</th>
<th>Credits: 12</th>
</tr>
</thead>
</table>

### Purpose:
To develop competencies in the legal aspects behind environmental compliance. These competencies include the understanding of the environmental law, constitutional, administrative and criminal law, as well as the effects the different business entity types have on the application of these laws.

### Target group:
Government and municipal officials and members of the public sector involved with environmental compliance.

### Admission requirements:
- BA degree or an equivalent NQF level qualification.

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### Module: The Legal Context for Environmental Management Compliance and Enforcement (LCEM015) - 12 Credits

**Content:**
- Introduction to environmental compliance and enforcement
- Constitutional and administrative law
- Environmental law for EMIs
- Criminal law and law of evidence
- Introduction to business entities

### Advanced Short Course in Environmental Management Compliance Inspection and Investigation - Industry (75817)

**Duration:** Six months  
**NQF Level:** 8  
**Credits:** 12

**Purpose:**
This SLP will be useful to students who want to develop competencies in conducting environmental compliance inspections and investigating suspected non-compliance. These competencies include the understanding of the definition, objectives and principles of inspections, the ability to plan inspection activities, data entry, quality and management, criminal and administrative enforcement, the safeguarding against physical hazards and preparing for a safe inspection.

**Target group:**
Government and municipal officials and members of the public sector involved with environmental compliance

**Admission requirements:**
BA Degree or an equivalent NQF level qualification

**Registration periods:**
April and September

**Module: Environmental Management Compliance Inspection and Investigation (Industry) (EMCI01P) - 12 Credits**

**Content:**
- Industrial health and safety for EMIs
- Conduct compliance inspections and investigate non-compliance with environmental quality and protection legislation
- Enforcement in cases of non-compliance with environmental quality and protection legislation
**Advanced Short Course in Environmental Management Compliance Inspection and Investigation - Biodiversity (75841)**

<table>
<thead>
<tr>
<th>Duration: Six months</th>
<th>NQF Level 8</th>
<th>Credits: 12</th>
</tr>
</thead>
</table>

**Purpose:**
This SLP will be useful to students who want to develop competencies in conducting environmental compliance inspections and investigating suspected non-compliance. These competencies include the understanding of the definition, objectives and principles of inspections, the ability to plan inspection activities, data entry, quality and management, criminal and administrative enforcement, the safeguarding against physical hazards and preparing for a safe inspection.

**Target group:**
Government and municipal officials and members of the public sector involved with environmental compliance

**Admission requirements:**
BA Degree or an equivalent NQF level qualification

**Registration periods:**
April and September

**Module: Environmental Management Compliance Inspection and Investigation (Biodiversity) (EMCB01X) - 12 Credits**

**Content:**
- Health and safety for biodiversity
- Conduct compliance inspections and investigate suspected non-compliance with marine and terrestrial biodiversity enforcement
- Enforcement in cases of non-compliance with marine and terrestrial biodiversity legislation

**Course in Practical Sports Turf Management (72656)**

<table>
<thead>
<tr>
<th>Duration: One year</th>
<th>NQF Level 5</th>
<th>Credits: 24</th>
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</thead>
</table>

**Purpose:**
The programme is aimed at the development of the groundsman that maintains sports turf facilities

**Target group:**
Green Industry: local authorities, national sports bodies (e.g. cricket, rugby, soccer, golf, hockey, etc), schools with sports facilities, maintenance companies, etc.

The course is targeted at individuals who wish to register for the programme after completion of their Senior Certificate and fulfilling the entry requirements of Unisa, as well as trainees who have progressed from NQF levels 1 to 4. With registered unit standards having the qualifications at numeracy and literacy level to gain Unisa entrance.

From initial surveys within the industry, we anticipate a considerable amount of interest with people already established within the horticultural and sports turf industry, that have not had the opportunity of this specialised training, as well as interest from individuals wishing to enter the industry.

**Admission requirements:**
Senior Certificate or an equivalent NQF level 4 qualification
Registration periods:
January to February and June to July

Module: Operate and Maintain Cultivation Equipment and Machinery (Practical)  
(PSTM01R) - 12 Credits
Content:
- All health and safety issues regarding tools, equipment and machinery must be complied with
- Tools, equipment and materials applicable within the context of this unit standard
- Sports turf tractors and electric, petrol or diesel engines must be maintained and operated to manufacturer’s standards
- Tools, equipment and machinery must be maintained to manufacturer’s standards and operated in such a way that the sports facility is up to the specified standards
- Line-marking equipment and machines are correctly used for specific sports facilities
- Sports equipment used for match play is correctly installed
- All equipment is correctly stored and maintained

Module: Preparation and Establishment of Turf Grass Surfaces  
(PSTM02S) - 12 Credits
Content:
- All health and safety issues during the installation of drainage, irrigation, topsoil and planting of sports turf grasses
- Tools, equipment and materials applicable within the context of this unit standard
- Different drainage systems
- Requirements of the root zone material
- Suitable planting media
- Root zone material
- Root zone levels
- Vegetative or non-vegetative methods of planting turf grasses
# Programme in Sports Turf Maintenance (72664)

<table>
<thead>
<tr>
<th>Purpose:</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
</tr>
</thead>
<tbody>
<tr>
<td>The programme is aimed at the development of the groundsman who maintains sports turf facilities for example the United Cricket Union of South Africa, the South African Football Association, etc. This programme would also assist South Africa in offering an excellent 2010 soccer world cup and beyond.</td>
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</table>

<table>
<thead>
<tr>
<th>Target group:</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Industry: Local authorities, national sports bodies (e.g. cricket, rugby, soccer, golf, hockey, etc), schools with sports facilities, maintenance companies, etc.</td>
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</tbody>
</table>

The programme is targeted at individuals who wish to register for the programme after completion of their Senior Certificate and fulfilling the entry requirements of Unisa, as well as trainees who have progressed from NQF levels 1 to 4, with registered unit standards having the qualifications at numeracy and literacy level to gain Unisa entrance.

From initial surveys within the industry, it is anticipated a considerable amount of interest with people already established within the horticultural and sports turf industry that have not had the opportunity of this specialised training, as well as interest from individuals wishing to enter the industry.

<table>
<thead>
<tr>
<th>Admission requirements:</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Certificate or an equivalent NQF level 4 qualification</td>
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<table>
<thead>
<tr>
<th>Registration periods:</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
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</thead>
<tbody>
<tr>
<td>January to February and June to July</td>
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<table>
<thead>
<tr>
<th>Module: Manage Sports Turf Pest and Weed Control (PSTM093) - 12 Credits</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Annual and perennial weeds</td>
<td></td>
<td></td>
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<tr>
<td>- Viral and fungal diseases</td>
<td></td>
<td></td>
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<tr>
<td>- Pests on turf grasses</td>
<td></td>
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<tr>
<td>- Spraying equipment</td>
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<table>
<thead>
<tr>
<th>Module: Identify and Select Major Sports Turf Grasses for Different Turfing (PSTM05V) - 12 Credits</th>
<th>NQF Level 5</th>
<th>Credits: 96</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
<td></td>
<td></td>
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<tr>
<td>- Components of grass plants</td>
<td></td>
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<tr>
<td>- Characteristics and functions of warm and cool season turf grasses</td>
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<tr>
<td>- Interactions between management factors in sports and amenity turf</td>
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<tr>
<td>- Quality of a sports turf</td>
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<tr>
<td>- Correct turf grass species for specific turf facilities</td>
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<tr>
<td>- Turf grass establishment methods appropriate to sports and amenity facilities</td>
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Module: Manage Cultural Practices in Turf  
(PSTM06W) - 12 Credits  
Content:  
- Mowing  
- Dethatching  
- Decompaaction  
- Compaction  
- Topdressing and levelling  
- Fertilisation  
- Irrigation

Module: Manage Health and Safety in a Sports Turf and Landscape Environment  
(PSTM10S) - 12 Credits  
Content:  
- All health and safety issues should be maintained on a sports turf facility and landscape site  
- Health and safety policies and procedures  
- Health and safety plan  
- Risks of exposure to hazardous substances  
- Hazardous substances storing and utilisation

Module: Manage Soil Systems  
(PSTM08Y) - 12 Credits  
Content:  
- Suitable growing media for ornamental plants and turf (e.g. texture, structure, etc)  
- Soil conditions for optimum turf growth  
- Fertility of growing media  
- Soil management strategies  
- A database for soil management  
- Excess surface and subsurface water  
- A water management strategy  
- Tools, equipment and materials applicable within the context of this unit standard

Module: Apply Administrative and Technical Resources in Turf Maintenance  
(PSTM07X) - 12 Credits  
Content:  
- Suitable growing media for ornamental plants and turf (e.g. texture, structure, etc)  
- Soil conditions for optimum turf growth  
- Fertility of growing media  
- Soil management strategies  
- A database for soil management  
- Excess surface and subsurface water  
- A water management strategy  
- Tools, equipment and materials applicable within the context of this unit standard

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Module: Apply Administrative and Technical Resources in Turf Maintenance  
(PSTM07X) - 12 Credits  
Content:
- Managerial skills, such as gathering, ordering, recording, reporting, maintenance and retrieving relevant information
- Skills operating in groups transfer
- Personnel systems
- Record keeping
- An awareness of the requirements of labour legislation
- Needs analysis for specific tools, equipment and machinery in sports turf and landscaping
- Time management with tools, machinery and equipment;
- Operational budget
- The planning and scheduling of sports facilities

Module: Describe Biological Processes in Plant Physiology  
(PSTM03T) - 12 Credits  
Content:
- The process of metabolism and the role thereof in plant production
- The movement of water, gasses, liquids, carbon substances and solutes within the plant
- The biochemistry of the light phase, dark phase, cyclic and non cyclic phosphorylation processes in plants
- The respiration meaning the aerobic, anaerobic and electron transport within plants
- The effect of hormones like auxins, gibberellins, cytokines, abscise acid, and ethylene on plant growth
- The response of plants to the environment such as phototropism, gravitropism, thigmotropism and other mechanical stimuli

Module: Develop Suitable Drainage and Irrigation Systems  
(PSTM04U) - 12 Credits  
Content:
- Perform a drainage needs evaluation
- Provide a basic drainage system design
- Select an appropriate drainage design
- Describe the components and requirements of an irrigation system
- Describe the requirements of irrigation installation
- Physically maintain and manage an extended irrigation operation
- Ensure that all irrigation practices are environmentally sensitive
- Operate a fertigation system
## Advanced Programme in South African Tree Appraisal Method (SATAM) (72885)

<table>
<thead>
<tr>
<th>Duration: One year</th>
<th>NQF Level 8</th>
<th>Credits: 60</th>
</tr>
</thead>
</table>

### Purpose:

This programme is intended for people who would like to work as tree appraisers in the green industry.

### Target group:

Green Industry: Local authorities, arboriculturists, horticulturists, agriculturists, nature conservationists, environmentalists and other members of the green industry. The programme is targeted at individuals within the green industry who wish to register as tree appraisers in Southern Africa. From initial surveys within the industry, we anticipate a considerable amount of interest with people already established within the green industry, who have not had the opportunity of this specialised training in tree appraisal.

### Admission requirements:

A qualification in horticulture, landscaping, agriculture, nature conservation and environmental sciences field at NQF level 7. Students should be competent with language, numeracy and communication skills on NQF.

### Registration periods:

1st semester January and 2nd semester June

### The Aesthetic and Environmental Value of Trees in Urban Landscapes (APTA01V) - 12 Credits

**Content:**

- The physical effects of exotic, indigenous trees on the environment
- Trees in landscapes using the elements of design, such as line, colour, shape and texture to implement the design principles, for example scale, repetition, rhythm, etc
- The trees ecological effects in the environment are evaluated
- Clients data, appraisers information and location data is captured
- Sub-routines such as, tree appraisals, questionnaires, editing is successfully operated
- Data exporting from the home computer to the host computer via the internet

### Tree Biology and Pruning (APTA053) - 12 Credits

**Content:**

- Tree anatomy such as basic cell and tissue structures, xylem and phloem, cambium, stems, leaves and roots
- Tree physiology including photosynthesis, respiration, transpiration, absorption, translocation and the vascular system of trees
- Pruning techniques including root pruning, topiary, espalier, pollarding, thinning, etc

### Hazard Tree Assessment and Abatement Procedures (APTA02W) - 12 Credits

**Content:**

- Tree problems can be identified by using diagnostic tools, e.g. hypsometer, GPS, digital camera, binoculars, and magnifying glass
- The correct collection and pressing of relevant plant material
- Non-parasitic factors, e.g. construction around trees
- Chewing and sucking insects and mite pests.
- Parasitic (bacteria, fungi, viruses, mycoplasma, nematodes and parasitic higher plants)
- Natural laws of growth and a visual tree hazard assessment
- South African Tree Appraisal Method for trees in the urban environment
Legal Liability of Persons Causing Damage to Trees (APTA03X) - 12 Credits

Content:
- The sources of law including common law, local authorities and legislation, custom and legal precedent
- Legal liability including both criminal and civil liability. The sources of criminal and civil liability differ as do their components and application
- Forensic procedures including basic procedures applied in various tribunals (Fora), the rules of natural justice and relevant principles from the law of evidence

Tree Identification (APTA04Y) - 12 Credits

Content:
- Angiosperms, gymnosperms, monocotyledons, dicotyledons
- Shape, texture, leaf arrangements
- Buds, twig shape and texture
- Flowers
- Indigenous trees in urban South Africa according to demographic/regional areas
- Exotic trees in urban South Africa according to demographic/regional areas
- Category 3 invader trees in urban South Africa according to demographic/regional areas
Department of Geography

Enquiries for the Short Learning Programmes offered through the Department of Geography should be directed at:

Ms H E Steenkamp
Department of Geography
Office B-026, Unisa Florida Campus
Tel: 011 471 3689   Fax: 012 429 8124
E-mail: gslpadm@unisa.ac.za

Mr A C Vlok
Department of Geography
Office B-012, Unisa Florida Campus
Tel: 011 471 3120   Fax: 012 429 8124
E-mail: glspacad@unisa.ac.za

Course in Exploring Geographical Information Systems (75515)

Duration: One semester
(The two modules should be taken simultaneously)  NQF Level 5  Credits: 27

Purpose:
This course will be useful to students of all disciplines and practitioners who make use of, or need spatial information, to better understand their discipline and the environment in which they operate and who wish to use GIS as a research tool. Another group of students that will benefit from this course would be students who aim to achieve career advancement in the GIS industry by gaining basic skills in operating a Geographical Information System (GIS). In particular, students credited with this course are able to think geographically, apply methods of spatial enquiry and use a Geographical Information System (GIS) as a tool for solving spatial problems and making informed decisions in the real-world based on viewing, querying, analysing and communicating spatial data.

Target group:
This course is targeted at individuals who have an interest in spatial data and employees of institutions that deal with and need spatial information in their daily activities. Of particular importance are the following application areas: natural resource management; environmental planning and management; provision and maintenance of transport and communication networks; delivery of general public services such as electricity, water and sewerage; provision of community services such as hospitals, schools, libraries, sports fields; crisis planning and management; provision of public safety and security; property development; socio-economic and health development; marketing; tourism development; education and training; business geographics; military strategy.

A prominent market is the pool of geography teachers in secondary schools that lacks the knowledge and skills to effectively teach the GIS concepts that have been introduced in Grades 10 to 12 Geography curricula.

A further market is the growing number of persons considering the GIS industry as a career. Although this course does not offer the depth required to eventually register as a GIS technician or professional it offers the opportunity to gain experience of what the industry requires.

continue to next page.
**Admission requirements:**
Senior Certificate or an equivalent NQF level 4 qualification. The two modules should be taken simultaneously. Also note that access to the Internet, Microsoft Office Access 2007 (or more recent) and registration as a myUnisa user is essential.

**Registration periods:**
First and second semesters: as per university regulations

<table>
<thead>
<tr>
<th>Module: Explore Geography for Geographical Information Systems (EGIS01J)</th>
<th>12 Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Content:</strong></td>
<td></td>
</tr>
<tr>
<td>• Geographical thinking and spatial perspectives</td>
<td></td>
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<tr>
<td>• Introduction to human geography</td>
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<tr>
<td>• Introduction to physical geography</td>
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<tr>
<td>• Introduction to human-environment relationships</td>
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<tr>
<td>• Spatial data – the fuel of a GIS</td>
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<tr>
<td>• Basic map literacy</td>
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<td>• Introduction to GIS: applications, definitions, origins, components and concepts</td>
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<table>
<thead>
<tr>
<th>Module: Operate a Vector-based Geographical Information System (EGIS02K)</th>
<th>15 Credits</th>
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<tbody>
<tr>
<td><strong>Content:</strong></td>
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<tr>
<td>• Architecture and functionality of a vector GIS software system</td>
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<td>• Modelling the real world in GIS</td>
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<tr>
<td>• Spatial reference frameworks for data capturing</td>
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<tr>
<td>• Geographic databases</td>
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<tr>
<td>• Data input and editing in a GIS</td>
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<tr>
<td>• Exploring and analysing data in a vector GIS</td>
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<tr>
<td>• Producing proper maps with GIS</td>
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</table>
Department of Life and Consumer Sciences

Enquiries for the Short Learning Programmes offered through the Department of Life and Consumer Sciences should be directed at:

Mrs E A Symington
Department of Life and Consumer Sciences
Office B215, Unisa Florida Campus
Tel: 011 471 3438
E-mail: albrehj@unisa.ac.za

Programme administrator(s)
Ms M J Gaffney
Department of Life and Consumer Sciences
Office B220, Unisa Florida Campus
Tel: 011 471 2616
E-mail: gaffnmj@unisa.ac.za

Short Course in Managing Health and Nutrition in Adverse Conditions (72540)

<table>
<thead>
<tr>
<th>Duration: One year</th>
<th>NQF Level 5</th>
<th>Credits: 12</th>
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Purpose:
The purpose is to enable health workers or people educating the community or who are involved with the community to identify malnutrition and address it appropriately, specifically in adverse conditions. Qualifying students will be able to:

- describe nutrition principles for promoting balanced nutritional adequacy.
- identify nutrition-related diseases and malnutrition.
- implement nutrition management principles in aim of disease prevention.
- apply balanced food decision making and adjustments.

Target Group:
Health professionals working with communities, groups and individuals affected by malnutrition and nutrition-related diseases.
Consequently the target group for this course is limited to the following students:

- community extension workers
- community health workers
- health aid workers concerned with food security (for example missionaries)
- medical representatives
- primary healthcare professionals (for example nurses, medical doctors)
- allied health professionals (for example social workers, occupational therapists)
- educators and caretakers of children
<table>
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<th>Admission requirements:</th>
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<tbody>
<tr>
<td>Senior Certificate or an equivalent NQF level qualification. Registration with a Health Professions Council will be a benefit.</td>
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<th>Registration periods:</th>
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<td>15 November to 15 February</td>
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| Module: Managing Health and Nutrition in Adverse Conditions (MHNA018) - 12 Credits |  |
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<tr>
<td>- Complete the application form and post it with the required supporting documentation</td>
</tr>
<tr>
<td>- Unisa will create student numbers for successful applications and communicate the outcome to you by post and/ or e-mail</td>
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<tr>
<td>- Successful applicants must them make the necessary payment</td>
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<tr>
<td>- Posting the original proof of payment to Unisa will finalise you registration</td>
</tr>
<tr>
<td>- Proof of registration documentation will be sent to you and study material will follow</td>
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