Environmental Management and Geophysics

SHORT COURSES | ADVISORY SERVICES

Shifting knowledge to insight
Shifting knowledge to insight

The rapid and vast changes we are beginning to experience in both our personal and professional lives call for a drastic shift in our thinking patterns and the way in which every industry will need to conduct business in the near future. Not only will business models in each and every trade need to transform in order to meet the growing needs and demands of consumers, but – more importantly – we will need to make a shift in the way we see and experience the world.

We currently live in a world governed by unprecedented technological advances – artificial intelligence, 3D printing and self-driving cars to mobile supercomputers, robotics and nanotechnology – that are all evidence of the significant change that is starting to happen around us right now.

We are on the brink of the Fourth Industrial Revolution that will no doubt change the way humankind lives, works and relates to one another. We are experiencing change at a speed unlike anything the world has experienced before, that compels us to live and create realities that were previously unthinkable.

As a means of contributing to the overall growth of the global market and anticipating future shifts in the way we have to do business, Enterprises University of Pretoria (Enterprises UP) provides specialised training programmes and short courses for skills development as well as research and advisory services for critical business insights to both our clients and individuals in South Africa and beyond.

What better way to remain on top of global changes in every walk of life and industry than through a partnership with a leading training and research provider that is backed by a solutions-driven approach and experts from the University of Pretoria.

We not only ensure that you increase productivity and enhance service excellence in your line of business, but also that you continuously engage in groundbreaking knowledge transfer in an ever-changing world by always shifting knowledge to insight.
Our solutions present a multifaceted value proposition aligned with organisational objectives, personal growth and skills development goals – either as a combination of Training Solutions and Research Solutions or as distinct solutions on their own. This also means that your company can optimise on B-BBEE scorecard points with a combination of our offerings that support the following outcomes:

1. **Work readiness development.**
   - Let entry-level employees acquire the right skills to help them integrate into the world of work more easily.

2. **Workplace Skills Plan (WSP) activation.**
   - Develop capacity and equip designated employees with professional skills aligned with industry needs.

3. **Community engagement.**
   - Ignite change in communities through experiential training and innovative business opportunities.

4. **Enterprise and supplier development.**
   - Invest in small business entities and start-ups that aspire to be more effective, efficient and sustainable.

**RESEARCH SOLUTIONS**

We provide a service offering that spans 50 plus areas of functional expertise and capability. Within each of these areas the total service offering is well balanced between applied research, advisory services and specialised business units. Most of our projects are highly customised and the solutions contained within each project draws on the latest best practice as informed by science and evidence.

**WHY PARTNER WITH US?**

- **A single point of entry for all training, research and advisory services.**
- **Access to all knowledge outputs from the University of Pretoria.**
- **Personalised services to achieve unique business and professional development goals.**
- **Innovative solutions for targeted training and critical business insight.**
- **An extensive international footprint spanning six continents.**
- **Draw from leading industry experts and South Africa’s finest thought leaders.**

**SOLUTIONS-DRIVEN APPROACH**

Make business decisions informed by scientific evidence.
- Science and scientific methods are embedded within our total solution offering.

Implement solutions that are shaped by and applicable to real-world challenges.
- The strong symbiotic relationship between science and application enables us to generate solutions that are both innovative and practical.

Enrich your perspective by allowing multidisciplinary project teams to generate 360 degree insights.
- We deploy various knowledge experts on the same project to generate enriched perspectives and diverse views.

Be a beneficiary of our creative journey with new ideas and solutions.
- We are a breeding ground for new ideas, solutions and innovations – and only after they have been tested and applied do we put them into practice.

Our solutions present a multifaceted value proposition aligned with organisational objectives, personal growth and skills development goals – either as a combination of Training Solutions and Research Solutions or as distinct solutions on their own. This also means that your company can optimise on B-BBEE scorecard points with a combination of our offerings that support the following outcomes:
For more information about our full range of available training programmes and short courses, visit www.enterprises.up.ac.za/training-solutions.

Also enquire with us about possible CPD points on any of our courses, or visit www.enterprises.up.ac.za/cpd-courses for an updated list.

See a range of relevant research and advisory services at the end of this section.
When it comes to climate change, the African continent is considered one of the most vulnerable to growing concerns such as global warming – suffering disproportionately as it only contributes a fraction of the world’s greenhouse gas emissions.¹ To counteract the potentially devastating effects this can lead to, we need to redefine our approach to economic and social development – as the environment and economic security are inevitably linked together – based on climate solutions that are commercially viable, can change global markets, engage a wider range of stakeholders and underpin long-term sustainability.²

With our choice of products and services in Environmental Management and Geophysics we bring together leading experts and practitioners to provide environmental leadership, new platforms for multidimensional cooperation and focused interventions to counteract the impact of environmental degradation and natural-resource depletion by tackling climate change head-on, adapting to extreme weather conditions and adopting renewable and sustainable energy solutions for the future. By taking the necessary steps we can make a fundamental change for the future, not only for the continent, but also for our planet.


3.8%  
Africa’s relatively small contribution to greenhouse gas emissions in relation to the vast effects it has on the continent.¹

14%  
The small percentage of plastic packaging that is collected on a global scale for recycling.³
Environmental Law

The short course in *Environmental Law* provides you with a comprehensive overview of the fast-growing and increasingly relevant field of environmental legislation in South Africa and further afield. The course specifically looks at the National Environmental Management Act of 1998 and its consequent amendments, relevant mining issues in environmental management and impacts of climate change. The course presents you with a further opportunity to gain insight into the key components of South African environmental legislation if you are engaged in the environmental law or management issues of your company or organisation, whether in the private or public sector.

*See also: Law and Human Rights*

Environmental Management and Regulation

The long course in *Environmental Management and Regulation* short course provides you with essential training in new regulatory developments to better navigate a range of complex issues related to environmental resources and extortion. The course covers a wide range of topics, including both legal and biological aspects of environmental management, ecological frameworks of environmental systems, environmental resource economics and auditing, as well as strategies for waste reduction, disposal and air pollution control. The course provides you with an in-depth review, discussion forum and case studies towards a better understanding of the issues and regulations that are at work to protect the environment.

*See also: Engineering and Technology Management*

**Recent Advances in Environmental Law**

The short course in *Recent Advances in Environmental Law* is designed to provide you with a better understanding of the key environmental legislation and recent legislative developments in South Africa since the introduction of the National Environmental Management Act of 1998, including associated Specific Environmental Management Acts (SEMs). During the course, you will become familiar with the Act’s relevant amendments, numerous sets of regulations, norms and standards, as well as listed activities that require licensing. The course therefore specifically aims to update you on the expanding and changing environmental legal landscape and to better navigate it as a member of the regulated community.

*See also: Law and Human Rights*

**Programme in Environmental Management**

The *Programme in Environmental Management* provides you with an in-depth understanding of environmental management – with a focus on sustainable socioeconomic development – through the environmentally sustainable design of new economic and social projects, as well as the enforcement of the provisions of the National Environmental Management Act of 1998. The programme also delves into Environmental Impact Assessments (EIAs) for proposed development and the design of an Environmental Management Plan (EMP) to minimise environmental impact. You will acquire a well-rounded understanding of the wide range of pertinent environmental issues relevant to your company’s development projects that are subject to existing environmental legislation.
Environmental Compliance  Monitoring and Enforcement

The Environmental Compliance Monitoring and Enforcement short course prepares you with knowledge and insights to align company policies and objectives to current environmental legislation to ultimately minimise liabilities and interact with audit, inspection and enforcement processes. Environmental legislation seeks to protect our natural resources and, during this course, you will acquire the know-how to optimally interact with laws and regulations to ensure sustainability. The course covers further aspects of both industrial and wildlife-related environmental activities, and encompasses legal perspectives on environmental compliance monitoring and enforcement implications for the regulated community. This course earns you credit towards the Programme in Environmental Management.

Environmental Impact Assessment Administration

The Environmental Impact Assessment Administration short course provides you with knowledge and insights in the evaluation, management and administration of Environmental Impact Assessments (EIAs). The course covers a review of EIA-related reports and applications (including applicable legislation and site investigations), setting and monitoring enforceable conditions and socioeconomic considerations in EIA for public participation. You will not only acquire invaluable skills in assessing the adequacy and quality of all relevant EIA documents, but you will also be able to determine and identify possible deficiencies before final decisions can be made. This course earns you credit towards the Programme in Environmental Management.

Responsible Leadership in Climate Change

The Responsible Leadership in Climate Change short course provides you with a better understanding of the current climate change landscape, illustrating how different worldviews affect the way in which different role-players think about and react to the current climate problem. The course covers topics that range from the latest climate research and impacts to the regulatory processes pertaining to greenhouse gases. The course will also illustrate how the principles of responsible leadership can be practically applied to the climate change debate, and enable you to approach the challenges of climate change systematically and from various perspectives in your own context.

See also: General Management and Leadership Development

Geological Site Investigation Techniques for Engineers

The short course in Geological Site Investigation Techniques for Engineers will provide you with in-depth knowledge of the general principles and approaches to geological site investigations with specific reference to engineering activities in your role as engineering geology practitioner or geologist. The course specifically puts an emphasis on developing appropriate site investigation techniques for different ground (site) conditions, engineering structures and geological materials. During the course, you will also acquire both theoretical knowledge and hands-on training in index laboratory testing methods that can be used in geological site investigations to expand your current practice methods for better results and analyses.

See also: Engineering and Technology Management
Land Rehabilitation: Reclamation and Restoration

The Land Rehabilitation: Reclamation and Restoration short course gives you an in-depth look at the principles of rehabilitating natural environments that have once been disturbed by developments such as surface mining, improper agricultural land management practices or any form of pollution. This course will equip you with the requisite skills to reinstate appropriate farming and soil-use practices by looking at the interrelationship between environmental factors and their importance in rehabilitating or reclaiming degraded or disturbed land. As such, rehabilitating damaged land is an important part of reinstating the habitats of wildlife and plants to improve ecosystems for future agricultural use. See also: Agriculture and Food Security

Advanced Course in Wetland Rehabilitation

The Advanced Course in Wetland Rehabilitation places an emphasis on the better understanding of wetland functioning, efficient planning and monitoring through a catchment-based approach. Many wetlands are being destroyed to make way for agricultural and residential development or through degradation, but this unique course provides you with an opportunity to gain practical fieldwork experience and enables you to apply your newly acquired knowledge and skills in the field to action a sustainable wetland rehabilitation plan. The course covers various topics of identification, classification and delineation of wetlands, wetland processes and functioning, as well as the legal framework of wetland management.

Basic Course in Geographic Information Systems

The Basic Course in Geographic Information Systems provides you with the essential theoretical and practical foundations to apply Geographic Information System (GIS) processes in the design of a new project. During this course, you will acquire requisite know-how on collecting data from various sources, building an integrated GIS database, analysing data and communicating the results. These are all essential skills for working in an environment where maps and geographic information are core tools for productivity. The short course, however, not only deals with GIS software from a theoretical perspective, but also allows you to work on a project using ArcGIS.

Advanced Course in Geographic Information Systems

The Advanced Course in Geographic Information Systems provides you with the opportunity to delve deeper into progressive models and advanced methods for data acquisition and management, multicriteria data analysis and other innovative topics in the design and implementation of Geographic Information Systems (GIS). The course will enable you to better explain the difference between various systems and how GIS has transformed the way spatial data, relationships and patterns are used in practice today. You will also be able to look into the wider range of GIS application and how it is used to solve real-world problems or inform complex decisions.
The short course in GIS Professional Practice covers the guidelines for professional practice as prescribed by the South African Council for Professional Land and Technical Surveyors (PLATO). During the course, you will gain a better understanding of all facets pertinent to professional practice in the Geographic Information Systems (GIS) industry. The course covers a range of topics, including professionalism, professional ethics and practices, social responsibility, partnerships, client relationships, PLATO legislation and rules, relevant legislation (Promotion of Access to Information Act of 2000 and the Spatial Data Infrastructure Act of 2003) and the role of international associations and societies in geomatics.

Introduction to GIS Standards

The Introduction to GIS Standards short course provides you with insights to the standards for presentation and transfer of geographic information between different users, systems and/or locations. This includes methods, tools and services for the acquisition, processing, management, analysis and access of information concerning phenomena associated with a location relative to the earth. A number of standards have either been adopted or adapted for use in South Africa by the local South African Bureau of Standards (SABS), and the course will specifically look into ISO/TC 211 Geographic Information/Geomatics and SC 71E Geographic Information to expand your knowledge of the field.

Advanced Course in Water Treatment Processes

The Advanced Course in Water Treatment Processes provides you with an overview of both the theoretical and practical aspects of industrially relevant advanced water treatment processes. Topics include chemical water treatment, advanced oxidation processes, calculating the required chemical doses required for various chemical water treatment processes, desalination and membrane technology. The course also includes a review of the current South African water crisis and the need for alternative water resources, development of new treatment processes, energy considerations, basic water chemistry, examples of advanced water treatment technologies, the scientific basis and limitations, operational considerations, case studies and advances in membrane technologies.

See also: Engineering and Technology Management
### Membrane Processes

| COURSE CODE | P000847 |
| MODE OF DELIVERY | Contact sessions |
| DURATION | 3 contact days |
| CERTIFICATE | Successfully completed |

The short course in **Membrane Processes** provides you with up-to-date information (from an engineering perspective) on all theoretical and practical aspects of the functioning and application of membrane processes to take more informed decisions in the desalination and treatment of water and wastewater. The course covers, among others, topics of the types of membrane and their characteristics, mass transfer and flux, rejection and recovery, performance evaluation, as well as pre-treatment requirements and processes. During the course you will be able to discover the applied design of processes by using selected software and various configurations, and apply your skills in practice.

**See also:** Engineering and Technology Management

### Operation of Water and Wastewater Treatment Plants

| COURSE CODE | P001013 |
| MODE OF DELIVERY | Contact sessions |
| DURATION | 5 contact days |
| CERTIFICATE | Successfully completed |

The **Operation of Water and Wastewater Treatment Plants** short course provides you with a theoretical and practical knowledge base on water and wastewater treatment, as well as the operation of water treatment plants. During the course, you will be empowered to make informed decisions about drinking water treatment processes and the quality of drinking water. The course also covers topics of basic water chemistry, drinking water quality requirements, wastewater treatment, effluent quality and the proper disposal of effluents. You will be able to apply your acquired skills to better evaluate the operation and control of water and wastewater treatment plants.

**See also:** Engineering and Technology Management

### Modelling and Simulation of Wastewater Treatment Processes

| COURSE CODE | P005393 |
| MODE OF DELIVERY | Contact sessions |
| DURATION | 3 contact days |
| CERTIFICATE | Successfully completed |

The short course in **Modelling and Simulation of Wastewater Treatment Processes** provides you with a framework for demonstrating and fine-tuning the processes that are commonly used in wastewater treatment plants. During the course, basic kinetic concepts for the removal of water pollutants will be presented together with the application of kinetic principles in several reactor designs. You will not only be provided with a comprehensive overview of important biochemical kinetic reactions, but you will also be able to apply practical skills and expand your knowledge in the design and operation of real systems through specialised software that simulates these processes.

**See also:** Engineering and Technology Management

### Water Analysis and Monitoring

| COURSE CODE | P005235 |
| MODE OF DELIVERY | Contact sessions |
| DURATION | 5 contact days |
| CERTIFICATE | Successfully completed |

The short course in **Water Analysis and Monitoring** is specifically designed to update you on current and new methods of sampling, handling, analysis and data management that have all recently emerged towards better decision-making in the field of water resource treatment and preservation. The water quality of natural water resources around the world is in a state of decline due to nutrient inputs from various municipal, industrial and/or agricultural activities. This course equips you with the innovative skills and practical know-how to reverse the trends towards hypertrophication in water bodies and to make recommendations for advanced treatment of effluent sources.

**See also:** Engineering and Technology Management

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Water Quality Management and Effluent Treatment

The Water Quality Management and Effluent Treatment short course provides you with a comprehensive overview of and practical insights into the various processes that are involved in the evaluation of drinking water quality, as well as water and wastewater treatment. The course covers topics of basic water microbiology and chemistry, biological treatment processes, sludge treatment and effluent disposal, as well as biological, chemical and physical water quality parameters, the flow of material and mass balances, among others. The course will ultimately empower you to make more informed decisions around the treatment, operation and control of water and wastewater treatment plants.

See also: Engineering and Technology Management

Hazardous Weather to Aviation

The short course in Hazardous Weather to Aviation introduces you to the specific weather phenomena and their consequent effects considered to be particularly hazardous to the operation of aircraft. Extreme weather conditions can threaten the smooth functioning of airports, airfields and military airbases, and to combat this, knowledge of the impact of hazardous weather can prove invaluable to the aviation and/or weather forecasting professional. During this course – presented by experts in aviation weather forecasting – you will acquire the requisite skills and knowledge of flight planning, weather patterns and forecasting methods to ensure effective operational and decision-making efforts at any aerodrome.

Basic Course in Meteorological Satellite Image Interpretation

The Basic Course in Meteorological Satellite Image Interpretation provides you with insights to and requisite knowledge of meteorological satellite imaging and the wide range of data it generates for interpretation and real-world application. Presented by experts in the field of satellite image interpretation, the course covers a range of topics on meteorological satellite imaging and the use of various channels and combinations of channels to generate relevant data. During the course, you will gain practical experience in the interpretation and basic manipulation of meteorological satellite images for weather forecasting and/or predictive climate patterns by means of real-time exercises and examples.

Programme in Weather Forecasting

The Programme in Weather Forecasting provides you with a theoretical background and practical experience in weather forecasting with specific regard to aviation, marine and specialised meteorology. This comprehensive programme is aimed at anyone who has a keen interest in the atmospheric sciences and seeks to enter a career in weather forecasting. During this programme, you will acquire a comprehensive knowledge framework of geography and climatology, including insights to elements such as radar and satellite meteorology, aerological diagrams and numerical weather prediction for forecasting purposes. This programme is presented in collaboration with the South African Weather Service (Department of Environmental Affairs).
Environmental Management and Geophysics

RESEARCH AND ADVISORY SERVICES

AQUACULTURE

- Aquaculture feasibility investigations
- Business planning, technical guidance and statutory approvals
- Environmental impact assessment
- Review biodiversity risk and benefit assessment policies and/or strategies

ARCHAEOLOGY

- Archaeological mitigation and monitoring services
- Archaeological site evaluations
- Heritage assessments
- Archaeological, historical, cultural and ethnographic research
- Archaeological reconnaissance and survey
- Heritage site and landscape mapping
- Archaeological collections analysis
- Artefact analysis

ENERGY MANAGEMENT AND OPTIMISATION

- Classical and renewable power systems and electricity policy development:
  - Clean coal energy optimisation
  - Clean Development Mechanism (CDM) related modelling and optimisation
  - Collected behaviour in mass roll out energy efficiency programmes
  - Constructal theory
  - Consumption analysis, including home appliance scheduling, hot water stratification phenomenon in electric geysers, heat pumps, HVAC system control and optimisation
  - Convergence, robustness and integer solutions
  - Demand-side management (DSM)
  - Dye-sensitised solar cells
- Energy efficiency and management in buildings:
  - Energy efficiency in railway systems
  - Energy efficiency
- Energy optimisation:
  - Energy storage modelling
- Energy system performance evaluation
- Energy transmission and distribution
- Environmental sustainability research:
  - General energy audits
  - Generating units’ maintenance
  - Green building conceptualisation
  - Hybrid renewable power generation systems research
- Industrial energy optimisation:
  - Load management
  - Maintenance planning
  - Micro channel condensation
  - Modelling and optimal control for heavy-haul trains
We deploy multifaceted teams of experts that provide customised and innovative **research and advisory services** for a competitive edge shaped around our ability to put science into practice.

Our operating paradigm is shaped around solutions applications in relation to real-world challenges experienced by our clients, as well as daily challenges in our communities and society. With this in hand, we offer a diverse range of empirical, business-to-business **Research Solutions** across the full lifecycle of projects:

- New methodologies in energy optimisation:
  - Nuclear energy research
  - Perovskite solar cells
  - Plasmonics
  - Problems related to colliery, conveyor belts, winders, ventilations systems, water pumping systems, coal beneficiation processes, co-generation systems and optimal control
- Renewable energy systems and microgrids
- Research on solar energy systems including thin film photovoltaics
- Research on smart grids
- Thermal and process optimisation
- Thermofluids research

- Assessments:
  - Blasting impact
  - Environmental impact
  - Herbicide tolerance and resistance investigations
  - Land capability, soil and vegetation
  - Seismic and hazardous risk
  - Vibration impact
  - Toxicology services
- Atmospheric emissions licensing consultancy
- Development of plans:
  - Air quality management
  - Environmental awareness
  - Environmental management
  - Land rehabilitation
  - Water management
- Geotechnical analysis and support services
- Land stewardship facilitation
- Licence application advisory services
- Surveys:
  - Ornithological
  - Visibility studies
- Water governance and institutional reforms
- Waste management research and advisory services
- Water utilisation
LAND USE MANAGEMENT AND SPATIAL PLANNING

- Area-based plan review and development
- Community participation facilitation
- Development of Integrated Development Plans (IDPs)
- Development of Spatial Development Frameworks (SDFs)
- Economic development research and advisory support services
- Feasibility studies
- Human settlement strategy development
- Land claims and investigations research
- Local economic development planning strategy development, review and evaluation
- Modelling and scenario building
- Policy review and development
- Property sector profile compilation, strategy development and implementation programme
- Regulatory Impact Assessments (RIA) and Socio Economic Impact Assessment Systems (SEIAS)
- Review and development of by-laws
- Rural development strategy development
- Rural, urban and regional planning
- Strategic planning, research, monitoring and evaluation, and knowledge management support to municipal, regional and provincial institutions/agencies
- Transport system impact studies and evaluation of project implementation and outcomes

NATURAL HAZARDS AND RISK MODELLING

- Internationally recognised experts in hazard, vulnerability and risk analysis for natural catastrophes
- Drawing on extensive skills in earthquake, mining catastrophe and meteorological risk modelling, ideally positioned to offer independent opinion and analysis on African and international natural perils
- Assessment of the potential impact of hydraulic fracturing on seismic hazard and loss
- Development and implementation of computer codes for hazard and loss assessments
- Development of stochastic event sets for catastrophe modelling
- Hail loss modelling
- Maximum loss estimation for catastrophe modelling
- Seismic hazard and loss estimation for buildings and critical infrastructures
- Tsunami hazard and loss assessment

WATER UTILISATION

- Agriculture nexus, crops and livestock
- Environmental endocrine disrupting chemicals and toxicology
- Environmental epidemiology
- Hydrology
- Hydropower
- Operational readiness and strategic infrastructure reviews
- Persistent organic pollutants
- Wastewater
- Water health and policy issues
- Water pollution
- Water purification design and best practice
- Water usage and rights (law and governance)
- Waterborne (enteric) viruses

For more information about our full offering of research and advisory services, visit www.enterprises.up.ac.za/research-solutions
The following credit-bearing courses provides you with an entry point to formal degree programmes exclusively presented by the University of Pretoria (with credits afforded towards the specified degree modules):

<table>
<thead>
<tr>
<th>Faculty of Economic and Management Sciences</th>
<th>Module code and credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Programme in Labour Relations Management</td>
<td>ABV700</td>
</tr>
<tr>
<td>Basic Course in Financial Investigation</td>
<td>FRA710 (20 credits)</td>
</tr>
<tr>
<td>Economic Crime Schemes</td>
<td>FRA702 (20 credits)</td>
</tr>
<tr>
<td>Fraud Risk Management</td>
<td>FRA708 (20 credits)</td>
</tr>
<tr>
<td>Interviewing Skills for Fraud Examiners and Auditors</td>
<td>FRA707 (20 credits)</td>
</tr>
<tr>
<td>Investigation and Management of Cyber and Electronic Crime</td>
<td>FRA703 (20 credits)</td>
</tr>
<tr>
<td>Investigation of Financial Crime</td>
<td>ABV320 (20 credits)</td>
</tr>
<tr>
<td>Law for Commercial Forensic Practitioners</td>
<td>FRA704 (20 credits)</td>
</tr>
<tr>
<td>Module in Advanced Module in Basic Taxation (Graduate Level)</td>
<td>BEL300 (40 credits)</td>
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<tr>
<td>Module in Advanced Module in Basic Taxation (Postgraduate Level)</td>
<td>BEL751 (40 credits)</td>
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<tr>
<td>Module in Basic Taxation</td>
<td>BEL200 (40 credits)</td>
</tr>
<tr>
<td>Money Laundering Investigation and Detection</td>
<td>FRA705 (20 credits)</td>
</tr>
<tr>
<td>Prevention and Detection of Procurement and Contract Fraud</td>
<td>FRA709 (20 credits)</td>
</tr>
<tr>
<td>Programme in Empowering Responsible Leaders in Local Government</td>
<td>OBS781 (20 credits)</td>
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<tr>
<th>Faculty of Health Sciences</th>
<th>Module code and credits</th>
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<tbody>
<tr>
<td>Online Course in Higher Exercise Science and Personal Training</td>
<td>FLG331 (18 credits)</td>
</tr>
<tr>
<td>Online Course in Neuroscience Visual Skills Testing and Training</td>
<td>FLG211 (12 credits)</td>
</tr>
<tr>
<td>Online Course: Introduction to Neuroscience Coaching</td>
<td>FLG327 (30 credits)</td>
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<tr>
<th>Faculty of Humanities</th>
<th>Module code and credits</th>
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<tbody>
<tr>
<td>Advanced Course in Employee Assistance Programmes</td>
<td>UPO923 (15 credits)</td>
</tr>
<tr>
<td>Cross-Cultural Communication</td>
<td>LCC715 (20 credits)</td>
</tr>
<tr>
<td>Sport Facilities and Events Management</td>
<td>MBK709 (27 credits)</td>
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<table>
<thead>
<tr>
<th>School of Public Management and Administration</th>
<th>Module code and credits</th>
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<tr>
<td>(credits towards enrolment in the Master's in Public Administration [MPA])</td>
<td>PAD803 (20 credits)</td>
</tr>
<tr>
<td>Strategic Capability and Leadership for Senior Managers</td>
<td>PAD804 (10 credits)</td>
</tr>
<tr>
<td>Programme and Project Management for Senior Managers</td>
<td>FHB800 (20 credits)</td>
</tr>
<tr>
<td>Public Financial Management for Senior Managers</td>
<td>HPB801 (20 credits)</td>
</tr>
<tr>
<td>People Management and Empowerment for Senior Managers</td>
<td>OXA800 (10 credits)</td>
</tr>
<tr>
<td>Public Policy, Problem Solving and Analysis for Senior Managers</td>
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</tbody>
</table>

Successful completion of credit-bearing short courses entails that a candidate who otherwise complies with all the admission requirements for corresponding formal degree programmes – as published annually in the respective year faculty year books of the University of Pretoria – may upon registering for the formal programme obtain credits for the corresponding degree modules. Normal application processes for admission to formal programmes at the University of Pretoria must be followed. Certificates of successful completion of credit-bearing short courses issued by Enterprises University of Pretoria must be submitted during the application for recognition of allocated credits.

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