

ENTRANCE REQUIREMENTS

Short courses (Note: successful completion of short courses does not automatically lead to entrance to the Masters Programme)

- A Bachelor's degree or diploma in an appropriate field or appropriate work experience in aquatic ecosystems.

Tutored MSc (Note: UJ entrance requirements for admission to the masters programme)

- A **BSc Hons** or equivalent 4-year degree in a **biological science** field, or equivalent qualifications in **environmental sciences** for cross-disciplinary studies.
- Candidates lacking an adequate ecological foundation may be required to complete additional topics as co-requisites during a preliminary year (2-year programme).



FURTHER INFORMATION

- Only 10 participants will be accepted for the short courses.
- For closing date for applications for Module 2 (see website www.uj.ac.za/zoology.)

COSTS

Short course modules (Modules 1-7)

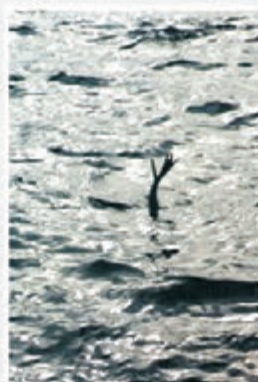
Registration, tuition and certification costs for individual 5-day short course modules: R6000 per module. Module costs exclude accommodation, meals and travel.

Masters Programme (Module 8)

Implementation from February 2009. Current costs are R6300 per annum.

VENUE

Department of Zoology, University of Johannesburg, Auckland Park Campus



For more information:

The FETWater River and Wetland Course Coordinator,

Department of Zoology, University of Johannesburg

PO Box 524, Auckland Park, 2006;

Fax (011) 559-2286

Tel (011) 559- 2951

www.uj.ac.za/zoology



FETWater
Programme In
Rivers and Wetlands

Presented by the Department of
Zoology, University of
Johannesburg



SHORT COURSE'S

in
Rivers and Wetlands



FETWATER

SHORT COURSE 'S IN RIVERS AND WETLANDS



COURSE PURPOSE

One should be able to develop the ability to analyze and solve problems in a critical and responsible manner and be able to apply relevant techniques in the field and collect and interpret all sources of information. A person should also be able to apply the scientific method to a relevant scientific problem as well as be able to communicate effectively.

COURSE AIMS

To provide training at a professional scientific level that qualifies candidates on a nationally and internationally recognized expertise level in managing riverine and wetland ecosystems.

COURSE OBJECTIVES

- Enable in-service training of civil servants at various levels (single module certificates to a Masters degree) in managing riverine and wetland ecosystems.
- Raise awareness of the value of all wetland types and rivers
- Ensure an understanding of the complexity of the interaction between the terrestrial environment and aquatic ecosystems.
- Increase capacity to manage the diverse aquatic ecosystem types.
- Ensure that managers have an understanding of impacts and the rehabilitation of wetlands and river ecosystems.

COURSEWORK CURRICULUM



Module 1: Functional freshwater and wetland ecology

The aim of this course is to provide students with the relevant background information of different wetland and river types found in South Africa and the intricate interactions between the various components of these ecosystems. This will provide them with the necessary skills to engage in research and management in these ecosystems.

Module 2: Water quality and pollution

The aim of this course is to provide students with the relevant background information on water quality and pollution to evaluate the consequences that the various water users have on the environment, to support measures aimed at controlling water-related diseases, and to protect ecosystems.

Module 3: Monitoring of wetlands and rivers

This course is aimed at providing the students with the knowledge and skills to plan and conduct monitoring and biomonitoring surveys in rivers and wetlands as well as enabling them to interpret the results of biomonitoring surveys.

Module 4: Estuaries and the near-shore marine environment

The aim of this course is to provide the student with the relevant background information on the function and structure of estuaries and the near-shore marine environment and to demonstrate the intricate interactions between the various components of freshwater and the near-shore marine environment with the focus on estuaries.

Module 5: Legislative aspects related to rivers and wetlands

The aim of this course is to introduce students to the different environmental laws, which may have an influence on the use and management of rivers and wetlands. This includes international conventions, common law and other important legislative developments that will impact on water resource management.

Module 6: Wetland and river management

The aim of this course is to give the learner the relevant background information on policy, strategy, and management instruments that will facilitate the management of riverine and wetland resources.

Module 7: Wetland and river remediation and rehabilitation

The aim of this course is to provide students with the necessary information to identify factors affecting river and wetland functioning and the strategies involved in remediating these factors and rehabilitation of the systems.

Module 8: Research Project

The research project will require the completion of a project management phase (including a project proposal, project budget and development of the research proposal (presentation to the higher degree committee). For the one-year full-time and two year part-time degree, data gathering, analysis and write-up must be completed within the specified registration period. Research projects are encouraged within the field of



expertise of candidates.