

# HOMEOSTASIS AND REGULATION

(Course Code: NRSE2004A)



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## OVERVIEW

**Number of modules:**

4

**Total credits:**

40

**Module duration:**

8 weeks

**How much time to commit:**

12 to 15 hours a week

## YOU WILL LEARN ABOUT:



The body's response to endocrine processes



How the nervous system communicates



Cellular regulation to maintain homeostasis



The effect of acid-base imbalances

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# ADMISSION REQUIREMENTS

Four-year Diploma in Nursing  
(NQF level 6). OR

Completion of the first-year  
modules of the Bachelor of Health  
Sciences in the Field of Nursing  
System Science qualification.



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# COURSE MODULES

**TOTAL CREDITS 40**

**TOTAL FEES R14 000**

### **Endocrine System** / NRSE20050 / Credits: 10

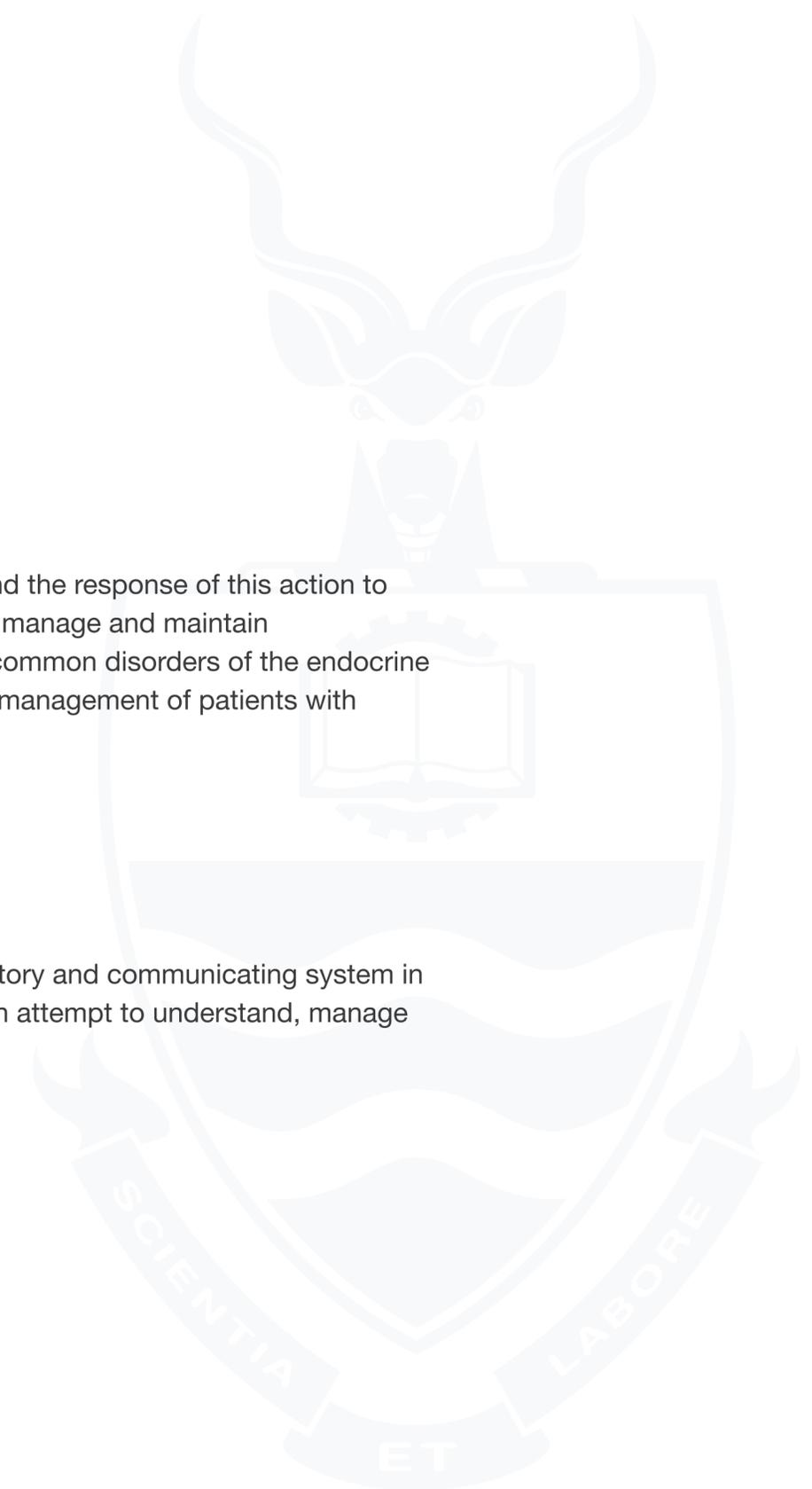
We explore the regulation and action of hormones of the endocrine system and the response of this action to physiological and pathophysiological processes in an attempt to understand, manage and maintain homeostasis. It covers a revision of the physiology of the endocrine system, common disorders of the endocrine system, assessment and diagnosis of endocrine disorders, and collaborative management of patients with endocrine disorders.

Fees: R3 500

### **Nervous System** /NRSE20060 / Credits: 10

This module takes a look at the nervous system as a major controlling, regulatory and communicating system in the human body, as well as the body's physiological response to disease in an attempt to understand, manage and maintain homeostasis/various neurological disorders.

Fees: R3 500



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# COURSE MODULES

**TOTAL CREDITS 40**

**TOTAL FEES R14 000**

### **Acid-base Balance** /NRSE20070 / Credits: 10

An investigation of the body's control of acid-base production and the response of this control to physiological changes and disease processes, in an attempt to manage and maintain normal pH ranges.

Fees: R3 500

### **Cellular Regulation** /NRSE20080 / Credits: 10

Develop an applied understanding of cellular regulation. Cellular regulation as a broad concept refers to all functions carried out within a cell to maintain homeostasis. The spectrum and processes of cellular regulation, the consequences of altered cellular regulation, and the application of this physiological process in healthcare will be included to ensure that students can recognise and intervene appropriately when conditions of altered cellular regulation develop. The scope of this concept focuses on the cellular growth and reproduction aspect, with normal cellular growth at one end of the spectrum, dysplasia as the following concept, and malignant neoplasia at the opposite end.

Fees: R3 500





## CONTACT US

If you have any questions or would like to apply,  
please phone us on **0800 233 726** or send an  
email to **[ENQUIRIES@ONLINE.WITS.AC.ZA](mailto:ENQUIRIES@ONLINE.WITS.AC.ZA)**