



# University of Pretoria Yearbook 2016

## Introduction to proteins and enzymes 251 (BCM 251)

**Qualification** Undergraduate

**Faculty** [Faculty of Natural and Agricultural Sciences](#)

**Module content**

Structural and ionic properties of amino acids. Peptides, the peptide bond, primary, secondary, tertiary and quaternary structure of proteins. Interactions that stabilise protein structure, denaturation and renaturation of proteins. Introduction to methods for the purification of proteins, amino acid composition, and sequence determinations. Introduction to enzyme kinetics and enzyme inhibition. Allosteric enzymes, regulation of enzyme activity, active centres and mechanisms of enzyme catalysis. Examples of industrial applications of enzymes. Practical training in laboratory techniques and Good Laboratory Practice. Techniques for the quantitative and qualitative analysis of biological molecules. Processing and presentation of scientific data.

**Module credits** 12.00

**Programmes**

[BDietetics Dietetics](#)

[BSc Biochemistry](#)

[BSc Biological Sciences](#)

[BSc Biotechnology](#)

[BSc Chemistry](#)

[BSc Ecology](#)

[BSc Entomology](#)

[BSc Food Management \(4 years\)](#)

[BSc Food Science](#)

[BSc Genetics](#)

[BSc Human Genetics](#)

[BSc Human Physiology](#)

[BSc Human Physiology, Genetics and Psychology](#)

[BSc Medical Sciences](#)

[BSc Microbiology](#)

[BSc Nutrition](#)

[BSc Physics](#)



BSc Plant Science

BSc Zoology

BScAgric Animal Science

BScAgric Animal Science: Pasture Science

BScAgric Food Science and Technology

BScAgric Option: Applied Plant and Soil Sciences

BScAgric Plant Pathology

**Service modules** Faculty of Health Sciences

**Prerequisites** [CMY117 GS] and [CMY127 GS] and [MLB111 GS]

**Contact time** 2 lectures per week, 90 minute practical per week

**Language of tuition** Double Medium

**Academic organisation** Biochemistry

**Period of presentation** Semester 1

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