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# University of Pretoria Yearbook 2016

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

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	Faculty of Natural and Agricultural Sciences
<b>Module credits</b>	12.00
<b>Programmes</b>	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



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<b>Service modules</b>	Faculty of Health Sciences
<b>Prerequisites</b>	[CMY117 GS] and [CMY127 GS] and [MLB111 GS]
<b>Contact time</b>	2 lectures per week, 90 minute practical per week
<b>Language of tuition</b>	Double Medium
<b>Academic organisation</b>	Biochemistry
<b>Period of presentation</b>	Semester 1

### 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.

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