University of Pretoria Yearbook 2016

Lipid and nitrogen metabolism 261 (BCM 261)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
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 Geology
	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
Service modules	Faculty of Health Sciences
Prerequisites	[CMY117 GS] and [CMY127 GS] and [MLB111 GS]

Contact time	90 minute practical per week, 2 lectures per week
Language of tuition	Double Medium
Academic organisation	Biochemistry
Period of presentation	Semester 2

Module content

Biochemistry of lipids, membrane structure, anabolism and catabolism of lipids. Nitrogen metabolism, amino acid biosynthesis and catabolism. Biosynthesis of neurotransmitters, pigments, hormones and nucleotides from amino acids. Catabolism of pureness and pyrimidines. Therapeutic agents directed against nucleotide metabolism. Examples of inborn errors of metabolism of nitrogen containing compounds. The urea cycle, nitrogen excretion. Practical training in scientific writing skills: evaluation of a scientific report. Techniques for separation and analysis of biological molecules