

Module Title:	Biochemistry
Academic year:	2009 2010
Credit Value:	5.0
Pre- requisites:	None
Assessment:	Continuous Assessment: 30%; Final examination: 70%
Aims	This module aims to provide the student with an understanding of the nature, structure and function of cellular lipids. It will cover the nature and structure the cell membrane and membrane transport systems. The structure and functions of carbohydrates and vitamins will also be described in addition to an introduction to the sources of cellular energy. All aspects of the module will be delivered with a strong emphasis specific examples from forensic and medical studies, to put the information in context for the students. In addition, enquiry based learning activities will be assigned throughout the semester to continually build student knowledge of the subject. Theoretical aspects of this module are underpinned by laboratory experiments delivered in the 'Laboratory skills in DNA and forensics' module in this semester.
Module Content	Cell Lipids: Biomolecules The Cell Membrane Excitable Membranes Techniques for Membrane Study Lipid analysis Introduction to Carbohydrates Protein Structure and Function
Intended Learning Outcomes: (September 2007)	At the end of this module the student will be able to: <ul style="list-style-type: none"> ▪ Describe the nature and structure of the cell membrane and distinguish between different forms of membrane transport. ▪ Identify key structures and functions of cell membrane. ▪ Explain the process of neurotransmission ▪ Describe the effects of neurotoxins

