Pathology

Year and Campus:	2010
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Overview:	Pathology is the scientific study of the nature of disease and its causes, processes, development, and consequences. It is a branch of science where factors which influence the shift from normal to abnormal and back again are studied at every level from the whole organism to the molecule. Therefore it overlaps with a range of biomedical disciplines such as anatomy, cell biology, biochemistry and molecular biology, microbiology and immunology and genetics. The study of Pathology will provide students with background knowledge which will enable them to ask fundamental questions about the response of tissues and cells to injury, mechanisms of healing and the outcomes which may occur when healing is unsuccessful. Students who complete a Pathology major will study findings emerging from research laboratories which are currently investigating some of the most common and intractable diseases in our community e.g. cardiovascular disease, autoimmune disease, neurodegenerative disease and cancer. A Pathology major will also give students the opportunity to experience working in a team on an investigative project and enable them to develop both verbal and written communication skills.
Objectives:	Students completing this major should: # study factors which influence changes from normal to abnormal structure and function at every level from organism to molecule. # learn to ask fundamental questions about the response of tissues and cells to injury and the outcomes of these responses. # develop a scientific understanding of the nature of disease and its causes, processes, development, and consequences. # study findings emerging from research laboratories which are currently investigating some of the most common and intractable diseases in our community eg. cardiovascular disease, autoimmune disease, neurodegenerative disease and cancer. # experience working in a team on an project which investigates disease. # learn to critically analyse data, both their own and from Scientific Literature. # develop both verbal and written communication skills.
Structure & Available Subjects:	Completion of 50 points of study at third year level
Subject Options:	All four of

Subject	Study Period Commencement:	Credit Points:
PATH30001 Mechanisms of Human Disease	Semester 1	12.50
PATH30002 Techniques for Investigation of Disease	Semester 1	12.50
PATH30003 Consequences of Human Disease	Semester 2	12.50
PATH30004 Advanced Investigation of Human Disease	Semester 2	12.50

Related Course(s):	Bachelor of Science