Cell and Developmental Biology

Year and Campus:	2011
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Overview:	This major provides students with broad understanding of cell structure and function and explores genetic, molecular and cellular mechanisms of development in a range of organisms and experimental models. It highlights the research methodologies used and how knowledge is applied to improve the human condition. Students should develop specialist skills in understanding cellular processes and experimental approaches used to investigate them. They should also develop generic skills in integrating information from diverse fields, communication and presentation of information, teamwork and independent learning that will equip them for a range of careers in research, biotechnology, government agencies, agriculture, medico-legal and journalism.
Objectives:	# To equip students with a broad knowledge of the structure and function of cells in unicellular and multicellular organisms. # Engender an understanding of how cells interact in multicellular organisms to regulate tissue and organ structure and function and how these arise in developmental processes. # Provide exposure to genetic, molecular and cellular experimental methodologies used to investigate cellular and developmental processes. # Afford opportunities and experience in how to implement and apply research skills and techniques to biomedical problems. # Facilitate the development of generic skills of analysis, interpretation, problem-solving and communication of scientific data.
Structure & Available Subjects:	Completion of 50 points of study at Level 3.
Majors/Minors/ Specialisations	There are three specialisations within the Cell and Developmental Biology major. The specialisations in Reproduction and Development and Animal Cell Biology are available within the Bachelor of Biomedicine course.
Related Course(s):	Bachelor of Biomedicine Bachelor of Science

Major/Minor/Specialisation
Reproduction and Development
Animal Cell Biology
Plant Cell Biology and Development