Mathematics and Statistics

Year and Campus:	2011
Coordinator:	Dr Steven CarnieDepartment of Mathematics and Statistics
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Overview:	A Mathematics and Statistics major will provide essential knowledge and transferable skills for students entering careers or research in the following areas: General sciences, Agriculture and environmental sciences, Banking, Finance and Commerce, Engineering, Government, Education, Industry, e.g. logistics/project manager, market research consultant, IT and computing, and Medicine.
Objectives:	Graduates will be prepared for these pathways by developing: # depth of knowledge in a coherent discipline-based undergraduate program which allows a student to build expertise and interest in particular specialisation areas # conceptual understanding through the use of technology and linking of application areas to theory as appropriate # transferable skills such as logical reasoning, oral and written communication, problem-solving, research, time management # analytical and cognitive skills which will enable the development of critical and creative thinking # the capacity to perform as an effective team member in collaborative work with colleagues.
Structure & Available Subjects:	Completion of 50 points of study at Level 3.
Majors/Minors/ Specialisations	There are four specialisations within the Mathematics and Statistics major.

Major/Minor/Specialisation
Pure Mathematics
Applied Mathematics
Operations Research / Discrete Mathematics
Statistics / Stochastic Processes

Notes:	This major is available to new generation Bachelor of Science students (B-SCI). It is also available to Bachelor of Science students who commenced prior to 2008. The published structure of this major includes subjects available in the current year. Pre-2008 Bachelor of Science students who completed one or more Level 3 science subjects towards this major prior to 2010 should contact the EPSC for advice on appropriate subjects to complete this major.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Commerce and Bachelor of Science Bachelor of Science Bachelor of Science Bachelor of Science and Bachelor of Information Systems