Mathematics and Statistics

Year and Campus:	2016
Coordinator:	Dr Lawrence Reeves Department 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.
Learning Outcomes:	*Mathematics and Statistics Major Graduates should demonstrate:* # ability to construct logical, clearly presented and justified arguments; # ability to formulate and model practical and abstract problems in mathematics and statistics; # mastery of a broad range of mathematical and statistical methods, with a particular emphasis in one of four specialisations; # ability to analyse complex problems, then choose and apply appropriate mathematical/ statistical tools in finding a solution; # appreciation of the universal utility of mathematics and statistics within all fields of science; # appreciation that mathematics and statistics are disciplines based on rigorous proofs and logical deduction; # understanding of the role of mathematics and statistics in other fields; # ability to communicate clearly, effectively and precisely about mathematical and statistical ideas; # ability to clearly communicate abstract mathematical/statistical ideas to an audience with a heterogeneous background in sciences; # understanding of the applicability of mathematics and statistics in addressing current issues facing humankind. # an ability to work effectively and responsibly both as an individual and as part of a team..
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	
Related Course(s):	Bachelor of Science