Discrete Mathematics / Operations Research

Year and Campus:	2016
Coordinator:	Dr Lawrence Reeves
Contact:	**lreeves@unimelb.edu.au (mailto:lreeves@unimelb.edu.au)**
Overview:	The Graduate Certificate allows students who have completed an undergraduate degree to refocus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The Graduate Certificate provides a pathway to the Master of Science Streams.
Learning Outcomes:	Students who complete the Graduate Certificate should: # Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values; # Apply critical and analytical skills and methods to the identification and resolution of problems; # Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force; # Communicate effectively; # Commit to continuous learning; # Be proficient in the use of appropriate modern technologies, such as the computer and other information.
Structure & Available Subjects:	Completion of 50 points of study at Level 3.
Subject Options:	***Subject prerequisites:*** *both of MAST20018 Discrete Mathematics and Operations Research and MAST20026 Real Analysis plus one of MAST20004 Probability or MAST20006 Probability for Statistics, or equivalents.* **Level 3** All three of:

Subject	Study Period Commencement:	Credit Points:
MAST30021 Complex Analysis	Semester 1, Semester 2	12.50
MAST30013 Techniques in Operations Research	Semester 1	12.50
MAST30012 Discrete Mathematics	Semester 2	12.50

	Plus any other third year level subject offered by the Department of Mathematics and Statistics.
Links to further information:	http://graduate.science.unimelb.edu.au
Related Course(s):	Graduate Certificate in Science