

# Discrete Mathematics / Operations Research

<b>Year and Campus:</b>	2015												
<b>Coordinator:</b>	Dr Lawrence Reeves												
<b>Contact:</b>	<p><b>Melbourne Graduate School of Science</b>                  Faculty of Science                  The University of Melbourne                  Victoria 3010</p> <p>Tel: + 61 3 8344 6128                  Fax: +61 3 8344 3351</p> <p>Web: <a href="http://graduate.science.unimelb.edu.au/">http://graduate.science.unimelb.edu.au/</a> (<a href="http://graduate.science.unimelb.edu.au/">http://graduate.science.unimelb.edu.au/</a>)</p>												
<b>Overview:</b>	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.												
<b>Learning Outcomes:</b>	<p>Students who complete the Graduate Certificate should:</p> <ul style="list-style-type: none"> <li># 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;</li> <li># Apply critical and analytical skills and methods to the identification and resolution of problems;</li> <li># Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force;</li> <li># Communicate effectively;</li> <li># Commit to continuous learning;</li> <li># Be proficient in the use of appropriate modern technologies, such as the computer and other information.</li> </ul>												
<b>Structure &amp; Available Subjects:</b>	<p>Completion of 62.5 points of study</p> <ul style="list-style-type: none"> <li># 50 points of study at level 3</li> <li># 12.5 points of study at level 9</li> </ul>												
<b>Subject Options:</b>	<p><b>Subject prerequisites:</b> For stream specific requirements please <a href="http://science.unimelb.edu.au/available-stream-requirements%20">click here (http://science.unimelb.edu.au/available-stream-requirements%20)</a> .</p> <p><b>Level 3</b></p> <p>All three of:</p> <table border="1" data-bbox="387 1518 1485 1783"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MAST30021 Complex Analysis</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MAST30013 Techniques in Operations Research</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MAST30012 Discrete Mathematics</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus any other third year level subject offered by the Department of Mathematics and Statistics.</p> <p><b>Level 9</b></p> <p>Plus one level 9 subject selected from listed discipline subjects in the <b>Master of Science (Mathematics and Statistics)</b> (<a href="http://handbook.unimelb.edu.au/view/current/mc-scimat">../view/current/mc-scimat</a>) program</p>	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
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<b>Links to further information:</b>	<a href="http://graduate.science.unimelb.edu.au">http://graduate.science.unimelb.edu.au</a>												

<b>Related Course(s):</b>	Graduate Certificate in Science
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