

Applied Mathematics

| Year and Campus: | 2013 | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----------------|---------|----------------------------|----------------|----------------------------|------------------|-------|--|------------------|-------|--|------------------|-------|---------|----------------------------|----------------|------------------------|------------------|-------|--------------------------------|------------|-------|--------------------------------|------------------|-------|
| Coordinator: | Dr Lawrence Reeves | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact: | <p>Melbourne Graduate School of Science Faculty of Science The University of Melbourne Victoria 3010</p> <p>Tel: + 61 3 8344 6128 Fax: +61 3 8344 3351</p> <p>Web: http://graduate.science.unimelb.edu.au/ (http://graduate.science.unimelb.edu.au/)</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overview: | <p>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.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| Objectives: | <p>Students who complete the Graduate Certificate should:</p> <ul style="list-style-type: none"> # 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: | <p>Subject prerequisites: all three of MAST20009 Vector Calculus and MAST20019 Dynamical Systems and Chaos and MAST200026 Real Analysis plus one of MAST20004 Probability or MAST20006 Probability for Statistics, or equivalents.</p> <p>All three of:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MAST30021 Complex Analysis</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>MAST30028 Numerical and Symbolic Mathematics</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>MAST30029 Partial Differential Equations</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> <p>Plus one elective selected from:</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>MAST30011 Graph Theory</td> <td>Not offered 2013</td> <td>12.50</td> </tr> <tr> <td>MAST30012 Discrete Mathematics</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>MAST30001 Stochastic Modelling</td> <td>Not offered 2013</td> <td>12.50</td> </tr> </tbody> </table> | | Subject | Study Period Commencement: | Credit Points: | MAST30021 Complex Analysis | Not offered 2013 | 12.50 | MAST30028 Numerical and Symbolic Mathematics | Not offered 2013 | 12.50 | MAST30029 Partial Differential Equations | Not offered 2013 | 12.50 | Subject | Study Period Commencement: | Credit Points: | MAST30011 Graph Theory | Not offered 2013 | 12.50 | MAST30012 Discrete Mathematics | Semester 2 | 12.50 | MAST30001 Stochastic Modelling | Not offered 2013 | 12.50 |
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| Links to further information: | http://graduate.science.unimelb.edu.au |
| Related Course(s): | Graduate Certificate in Science |