

# Applied Mathematics

| <b>Year and Campus:</b>                       | 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|---------|----------------------------|----------------|----------------------------|------------------------|-------|----------------------------------------------|------------|-------|------------------------------------------|------------|-------|
| <b>Coordinator:</b>                           | .                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Contact:</b>                               | .                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Overview:</b>                              | Applied Mathematics specialisation within the Mathematics and Statistics major                                                                                                                                                                                                                                                                                                                                                                          |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Objectives:</b>                            | .                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Structure &amp; Available Subjects:</b>    | Completion of 50 points of study at third year level                                                                                                                                                                                                                                                                                                                                                                                                    |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Subject Options:</b>                       | All three of                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
|                                               | <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>Semester 1, Semester 2</td> <td>12.50</td> </tr> <tr> <td>MAST30028 Numerical and Symbolic Mathematics</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>MAST30029 Partial Differential Equations</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table> |                |  | Subject | Study Period Commencement: | Credit Points: | MAST30021 Complex Analysis | Semester 1, Semester 2 | 12.50 | MAST30028 Numerical and Symbolic Mathematics | Semester 1 | 12.50 | MAST30029 Partial Differential Equations | Semester 2 | 12.50 |
| Subject                                       | Study Period Commencement:                                                                                                                                                                                                                                                                                                                                                                                                                              | Credit Points: |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30021 Complex Analysis                    | Semester 1, Semester 2                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30028 Numerical and Symbolic Mathematics  | Semester 1                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30029 Partial Differential Equations      | Semester 2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
|                                               | Plus one elective selected from                                                                                                                                                                                                                                                                                                                                                                                                                         |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
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| Subject                                       | Study Period Commencement:                                                                                                                                                                                                                                                                                                                                                                                                                              | Credit Points: |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30011 Graph Theory                        | Semester 1                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30012 Discrete Mathematics                | Semester 2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| MAST30001 Stochastic Modelling                | Semester 2                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12.50          |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |
| <b>Related Majors/Minors/Specialisations:</b> | Mathematics and Statistics                                                                                                                                                                                                                                                                                                                                                                                                                              |                |  |         |                            |                |                            |                        |       |                                              |            |       |                                          |            |       |