Mathematics & Statistics Major

| Year and Campus: | 2010 | | | | |
|---|--|----------------------------|-------------------|--|--|
| Coordinator: | tbc | | | | |
| Contact: | Arts & Music Student Centre (http://www.arts.unimelb.edu.au/about/contact.html) | | | | |
| Overview: | This major can be taken by students enrolled in the pre-2008 Bachelor of Arts - please refer to the course overview for details. | | | | |
| | The Department of Mathematics and Statistics in the Faculty of Science offers a major and honours program which may be undertaken within the Bachelor of Arts degree. | | | | |
| Objectives: | see the course objectives | | | | |
| Structure & Available Subjects: | A major in mathematics and statistics usually requires a minimum of nine 12.5 point subjects, totalling 112.5 points. It comprises: | | | | |
| | # at least two first-year subjects in mathematics and statistics (25 points); and | | | | |
| | $^{\#}$ three second-year subjects in mathematics and statistics (37.5 points); and | | | | |
| | # four third-year subjects in mathematics and statistics (5 | atistics (50 points). | | | |
| | Please see previous versions of the Handbook for information on the srtucture - <u>https://psc.unimelb.edu.au/</u> (https://psc.unimelb.edu.au/) If you have any questions about the major structure or subjects, please contact the <u>Arts &</u> <u>Music Student Centre</u> (http://www.arts.unimelb.edu.au/about/contact.html). | | | | |
| Subject Options: Emphasising pure mathematics - second year | | | | | |
| | Subject | Study Period Commencement: | Credit Points: | | |
| | 620-221 Real and Complex Analysis | Not offered 2010 | 12.50 | | |
| | 620-222 Linear and Abstract Algebra | Not offered 2010 | 12.50 | | |
| | MAST20009 Vector Calculus | Semester 1, Semester 2 | 12.50 | | |
| | Emphasising pure mathematics - third year | | | | |
| | Subject | Study Period Commencement: | Credit Points: | | |
| | 620-311 Metric Spaces | Not offered 2010 | | | |
| | 620-312 Linear Analysis | Not offered 2010 | | | |
| | MAST30005 Algebra | Semester 1 | 12.50 | | |
| | 620-322 Topology | Not offered 2010 | | | |
| | Emphasising studies in operations research - first year Please see previous versions of the student handbooks for more information. | | | | |
| | Subject | Study Period Commencement: | Credit Points: | | |
| | 620-142 Mathematics B | Not offered 2010 | 12.50 | | |
| | Emphasising studies in operations research - second year | | | | |
| | Subject | Study Period Commencement: | Credit Points: | | |
| | 620-261 Introduction to Operations Research | Not offered 2010 | 12.50 | | |
| | 620-262 Decision Making | Not offered 2010 | 12.50 | | |

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|--|--------------------------------|-------------------|--|--|--|--|
| 620-270 Applied Statistics | Not offered 2010 | 12.50 | | | | |
| Emphasising studies in operations research - third year | | | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| MAST30011 Graph Theory | Semester 1 | 12.50 | | | | |
| MAST30013 Techniques in Operations Research | Semester 1 | 12.50 | | | | |
| 620-362 Applied Operations Research | Not offered 2010 | | | | | |
| 620-371 Linear Models | Not offered 2010 | - | | | | |
| Emphasising studies in applied mathematics - first year Please see previous versions of the student handbooks for more information | | | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| 620-142 Mathematics B | Not offered 2010 | 12.50 | | | | |
| 620-143 Applied Mathematics | Not offered 2010 | 12.50 | | | | |
| Emphasising studies in applied mathematics - second year Student must complete Vector Analysis, Mathematical Methods and either Real and Complex Analysis or Analysis. | | | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| MAST20009 Vector Calculus | Semester 1, Semester 2 | 12.50 | | | | |
| 620-232 Mathematical Methods | Not offered 2010 | | | | | |
| 620-221 Real and Complex Analysis | Not offered 2010 | 12.50 | | | | |
| 620-252 Analysis | Not offered 2010 | | | | | |
| mphasising studies in applied mathematics | - third year | ·) | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| MAST30007 Applied Partial Differential Equations | Semester 1 | 12.50 | | | | |
| 620-332 Integral Transforms & Asymptotics | Not offered 2010 | | | | | |
| 620-342 Industrial & Applied Mathematics | Not offered 2010 | | | | | |
| 620-381 Computational Mathematics | Not offered 2010 | | | | | |
| Emphasising statistical applications - first yea Please see previous versions of the student handbook | ar ks for more information. | | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| 620-142 Mathematics B | Not offered 2010 | 12.50 | | | | |
| 620-143 Applied Mathematics | Not offered 2010 | 12.50 | | | | |
| Emphasising statistical applications - second year | | | | | | |
| Subject | Study Period Commencement: | Credit Points: | | | | |
| MAST20004 Probability | Semester 1 | 12.50 | | | | |
| MAST20005 Statistics | Semester 2 | 12.50 | | | | |
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Emphasising statistical applications - third year

| | Subject | Study Period Commencement: | Credit Points: |
|--------------------|---------------------------------------|----------------------------|-------------------|
| | MAST30001 Stochastic Modelling | Semester 2 | 12.50 |
| | 620-302 Chance and Options Pricing | Not offered 2010 | |
| | 620-371 Linear Models | Not offered 2010 | |
| | 620-372 Applied Statistical Inference | Not offered 2010 | |
| Related Course(s): | Bachelor of Arts | | |