

536-AA Master of Geographic Information Technology

| Year and Campus: | 2008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------|---------|----------------------------|----------------|---------------------------------------|---|--------|---------------------------------------|------------|-------|------------------------------------|------------|-------|------------------------|------------|-------|-----------------------------|------------|-------|-------------------------------|------------|-------|------------------------------|--------------------------------|-------|--|------------|-------|---------------------------------------|------------|-------|--|------------|-------|---------------------------|------------|-------|-------------------------------|--------------------------------|----|--|------------|-------|--------------------------------------|------------------|--------|---------------------------|------------|-------|---------------------------------------|--------------------|-------|
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level: | Graduate/Postgraduate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Duration & Credit Points: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact: | Department of Geomatics Postgraduate Coordinator Professor Ian Bishop E: ibishop@unimelb.edu.au Faculty of Engineering Manager, Planning & Projects (Academic Programs) Rebecca Randall E: r.randall@unimelb.edu.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Overview: | The Master of Geographic Information Technology is designed to meet the needs of graduates employed in a variety of disciplines associated with land administration, natural resource management, facility information management, environmental management, urban planning and conservation, and who wish to gain a detailed knowledge of the theory, technology and applications of geographic information systems (GIS) as a subset of the broader discipline of the management of spatial data. Graduates are likely to come from engineering, surveying, geography, planning, environmental science, agriculture and forestry. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Objectives: | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Course Structure & Available Subjects: | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subject Options: | Students are required to complete 100 points of study. The selection of subjects will be based on discussion with the Course Coordinator. Subjects are taken from the following list: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>121-542 Geographical Analysis and GIS</td> <td>2</td> <td>12.500</td> </tr> <tr> <td>451-607 Land Administration (Masters)</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>451-608 Spatial Analysis (Masters)</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>451-609 Remote Sensing</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-610 Fundamentals of GIS</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>451-611 Spatial Visualisation</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-612 Research Project GIS</td> <td>Semester 1, Semester 2, Summer</td> <td>12.50</td> </tr> <tr> <td>451-613 Scripting and Programming in GIS</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-614 Distributed Spatial Computing</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-617 Fundamentals of Positioning Technologies</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>451-624 Management of GIS</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-625 Investigative Project</td> <td>Semester 1, Semester 2, Summer</td> <td>25</td> </tr> <tr> <td>451-627 Developing Spatial Data Infrastructure</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>451-629 Advanced Topics in GIScience</td> <td>Not offered 2008</td> <td>12.500</td> </tr> <tr> <td>451-666 Spatial Databases</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>451-665 Spatial Visualisation on line</td> <td>Semester 2, Summer</td> <td>12.50</td> </tr> </tbody> </table> | | Subject | Study Period Commencement: | Credit Points: | 121-542 Geographical Analysis and GIS | 2 | 12.500 | 451-607 Land Administration (Masters) | Semester 1 | 12.50 | 451-608 Spatial Analysis (Masters) | Semester 1 | 12.50 | 451-609 Remote Sensing | Semester 2 | 12.50 | 451-610 Fundamentals of GIS | Semester 1 | 12.50 | 451-611 Spatial Visualisation | Semester 2 | 12.50 | 451-612 Research Project GIS | Semester 1, Semester 2, Summer | 12.50 | 451-613 Scripting and Programming in GIS | Semester 2 | 12.50 | 451-614 Distributed Spatial Computing | Semester 2 | 12.50 | 451-617 Fundamentals of Positioning Technologies | Semester 1 | 12.50 | 451-624 Management of GIS | Semester 2 | 12.50 | 451-625 Investigative Project | Semester 1, Semester 2, Summer | 25 | 451-627 Developing Spatial Data Infrastructure | Semester 2 | 12.50 | 451-629 Advanced Topics in GIScience | Not offered 2008 | 12.500 | 451-666 Spatial Databases | Semester 1 | 12.50 | 451-665 Spatial Visualisation on line | Semester 2, Summer | 12.50 |
| Subject | Study Period Commencement: | Credit Points: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 121-542 Geographical Analysis and GIS | 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-607 Land Administration (Masters) | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-608 Spatial Analysis (Masters) | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-609 Remote Sensing | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-610 Fundamentals of GIS | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-611 Spatial Visualisation | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-612 Research Project GIS | Semester 1, Semester 2, Summer | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-613 Scripting and Programming in GIS | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-614 Distributed Spatial Computing | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-617 Fundamentals of Positioning Technologies | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-624 Management of GIS | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-625 Investigative Project | Semester 1, Semester 2, Summer | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-627 Developing Spatial Data Infrastructure | Semester 2 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-629 Advanced Topics in GIScience | Not offered 2008 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-666 Spatial Databases | Semester 1 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-665 Spatial Visualisation on line | Semester 2, Summer | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Note: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | <ul style="list-style-type: none"># students with no previous GIS experience are expected to take subjects: 451-609 and 451-610# students may choose up to two relevant GIS-related electives offered by other departments and faculties with the written approval of the Course Coordinator# the 121 subject prefix denotes the subject is offered by the School of Anthropology, Geography and Environmental Studies . |
| Entry Requirements: | 4 year degree or 3 year degree and at least 2 years documented industry experience |
| Core Participation Requirements: | - |
| Graduate Attributes: | - |
| Generic Skills: | - |