

247-AA Graduate Certificate in Geographic Information Systems

| Year and Campus: | 2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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 Graduate Certificate in Geographic Information Systems (GIS) provides applicants with a short, introductory-level coursework qualification in spatial information science and technology. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Objectives: | <p>The course is aimed at developing:</p> <ul style="list-style-type: none"> # a fundamental understanding of the theoretical principles and practical aspects relating to GIS and associated disciplines # an appreciation of the diverse range of purposes to which GIS and spatial information science in general can be applied # basic practical skills in using and applying GIS and remote sensing to solve problems in fields such as land administration, natural resource management, facility management, environmental science, geography, planning, agriculture and forestry. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subject Options: | <p>Students will be required to enrol in and pass four 12.5 point subjects totalling 50 points. Applicants must take the compulsory subject and three elective subjects.</p> <p>Compulsory Subject</p> <p>Compulsory Subjects</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>451-610 Fundamentals of GIS</td> <td>Semester 1</td> <td>12.500</td> </tr> </tbody> </table> <p>Electives (choose three):</p> <p>Electives</p> <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>Not offered 2009</td> <td>12.50</td> </tr> <tr> <td>451-447 Photogrammetry</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-607 Land Administration (Masters)</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>451-608 Spatial Analysis (Masters)</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>451-609 Remote Sensing</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-611 Spatial Visualisation</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-613 Scripting and Programming in GIS</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-614 Distributed Spatial Computing</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-617 Fundamentals of Positioning Technologies</td> <td>Semester 1</td> <td>12.500</td> </tr> <tr> <td>451-624 Management of GIS</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-627 Developing Spatial Data Infrastructure</td> <td>Semester 2</td> <td>12.500</td> </tr> <tr> <td>451-629 Advanced Topics in GIScience</td> <td>Not offered 2009</td> <td>12.500</td> </tr> <tr> <td>451-666 Spatial Databases</td> <td>Semester 1</td> <td>12.500</td> </tr> </tbody> </table> | | | Subject | Study Period Commencement: | Credit Points: | 451-610 Fundamentals of GIS | Semester 1 | 12.500 | Subject | Study Period Commencement: | Credit Points: | 121-542 Geographical Analysis and GIS | Not offered 2009 | 12.50 | 451-447 Photogrammetry | Semester 2 | 12.500 | 451-607 Land Administration (Masters) | Semester 1 | 12.500 | 451-608 Spatial Analysis (Masters) | Semester 1 | 12.500 | 451-609 Remote Sensing | Semester 2 | 12.500 | 451-611 Spatial Visualisation | Semester 2 | 12.500 | 451-613 Scripting and Programming in GIS | Semester 2 | 12.500 | 451-614 Distributed Spatial Computing | Semester 2 | 12.500 | 451-617 Fundamentals of Positioning Technologies | Semester 1 | 12.500 | 451-624 Management of GIS | Semester 2 | 12.500 | 451-627 Developing Spatial Data Infrastructure | Semester 2 | 12.500 | 451-629 Advanced Topics in GIScience | Not offered 2009 | 12.500 | 451-666 Spatial Databases | Semester 1 | 12.500 |
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| 451-610 Fundamentals of GIS | Semester 1 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 121-542 Geographical Analysis and GIS | Not offered 2009 | 12.50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-447 Photogrammetry | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-607 Land Administration (Masters) | Semester 1 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-608 Spatial Analysis (Masters) | Semester 1 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-609 Remote Sensing | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-611 Spatial Visualisation | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-613 Scripting and Programming in GIS | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-614 Distributed Spatial Computing | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-617 Fundamentals of Positioning Technologies | Semester 1 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-624 Management of GIS | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-627 Developing Spatial Data Infrastructure | Semester 2 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-629 Advanced Topics in GIScience | Not offered 2009 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 451-666 Spatial Databases | Semester 1 | 12.500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | 451-665 Spatial Visualisation on line | Summer, Semester 2 | 12.500 |
| Entry Requirements: | The right is reserved to cancel any postgraduate 600-level subject if insufficient enrolments are received. If this is the case alternative arrangements will be made to meet student needs. | | |
| Core Participation Requirements: | 3 year pass level degree or other tertiary education with at least 2 years industry experience. | | |
| Notes: | <p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> <p>Intake: The intake for the course will normally be in Semester 1 of each year due to the introductory nature of the subjects involved.</p> | | |