

## 451-627 Developing Spatial Data Infrastructure

<b>Credit Points:</b>	12.500
<b>Level:</b>	Graduate/Postgraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 48 hours of lectures, tutorials and practical exercises; Non-contact time commitment: 96 hours Total Time Commitment: Not available
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;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.&lt;/p&gt; <p>&lt;p&gt;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: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p> </p>
<b>Coordinator:</b>	Dr Abbas Rajabifard
<b>Subject Overview:</b>	This subject introduces the concepts, nature, processes involved, organisational models and progress made on Spatial Data Infrastructure (SDI) developments and the cross-jurisdictional relationships of these developments. The focus of the subject is on problem solving to increase understanding and management capacity for the spatial data activities in the context of SDI development. Topics covered include: SDI principles, issues and case studies; SDI hierarchy; current SDI initiatives; SDI development models; SDI and partnerships approaches; financing SDI development; challenges for developed and developing countries; capacity building for SDI; seamless SDI and spatially enabled platforms; marine SDI and marine cadastre; SDI development-technical aspects; and policy and privacy issues.
<b>Assessment:</b>	3-hours of written examinations and tests (50%); a 4000 word major project presentation (30%) and the equivalent of 4000-words of written assignments and reports on practical work (20%).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	Williamson, I.P., Rajabifard, A. and Feeney, M-E (2003), Developing Spatial Data Infrastructures-from concept to reality. Taylor and Francis, UK. Rajabifard, A. (2007), Towards a Spatially Enabled Society, University of Melbourne.
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>On successful completion, students should have:</p> <ul style="list-style-type: none"> <li>• an understanding of SDI principles and issues, institutional and technical arrangements supporting SDI initiatives, the need for effective and efficient design, and development of SDIs</li> <li>• the ability to review a variety of technologies for developing and maintaining SDIs</li> <li>• an understanding of and ability to analyse a range of local and overseas approaches to SDI development in both developed and developing countries</li> </ul>

	<ul style="list-style-type: none"><li>• modelling, designing and evaluating SDI and other related spatial data initiatives</li></ul>
<b>Related Course(s):</b>	Graduate Certificate in Geographic Information Systems Graduate Diploma in Geographic Information Systems Graduate Diploma in Geomatics Science Master of Applied Science (Geographic Information Systems) Master of Geographic Information Technology