

## 451-235 Spatial Databases

<b>Credit Points:</b>	12.50
<b>Level:</b>	2 (Undergraduate)
<b>Time Commitment:</b>	Contact Hours: 2 hour lecture, 2 hour practical per week. Total Time Commitment: Not available
<b>Prerequisites:</b>	451-103 Information Science and Programming or equivalent subject.
<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;         &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>
<b>Subject Overview:</b>	<p>The topics covered in this subject will include:</p> <ul style="list-style-type: none"> <li># fundamentals of spatial databases;</li> <li># spatial data modeling, including entity-relationship and object-oriented data models;</li> <li># indexes and access methods, including B-trees, quadtrees, and R-trees; and</li> <li># query languages and query processing.</li> </ul> <p>In undertaking this subject, students should acquire the following specific skills:</p> <ul style="list-style-type: none"> <li># ability to develop database designs for a spatial applications;</li> <li># ability to query spatial and non-spatial database systems; and</li> <li># ability to use and customise specific spatial and non-spatial database systems.</li> </ul>
<b>Assessment:</b>	A 3-hour written examination at the end of semester (60% of marks) and the equivalent of 3000 words of coursework assessment comprising three separate practical assignments (40% of subject marks).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	Information Not Available
<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>	<ul style="list-style-type: none"> <li># ability to apply computer techniques for communication of complex information</li> <li># in-depth technical competence in at least one engineering discipline</li> <li># ability to undertake problem identification, formulation and solution</li> </ul>
<b>Related Course(s):</b>	Bachelor of Geomatic Engineering

Bachelor of Geomatic Engineering & Bach of Planning & Design(Prop&Const)  
Bachelor of Geomatic Engineering and Bachelor of Arts  
Bachelor of Geomatic Engineering and Bachelor of Science