

## 615-330 Advanced Concepts in Database

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<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: 24 lectures (three hours per week) and 11 laboratory-based seminars (two hours per week) Total Time Commitment: 120 hours
<b>Prerequisites:</b>	A grade of at least H3 for 615-230 Database Concepts and successful completion of 62.5 points of 200-level information systems subjects.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Sean Maynard
<b>Subject Overview:</b>	<p>Topics will include database administration; physical database design and implementation; emerging database technologies; relational database issues (development, query processing and optimisation); and database and data management. Some of the department's industry partners may provide assistance in the subject's delivery. This subject builds upon students' understanding of topics such as logical database design and SQL.</p> <p>At the completion of this subject, students should:</p> <ul style="list-style-type: none"> <li># be able to develop the physical design required of a large database system;</li> <li># be able to implement a large database; and</li> <li># be able to manage large databases efficiently.</li> </ul>
<b>Assessment:</b>	Assigned project work expected to average six hours per week due during the semester (40%); a 3-hour written examination in the examination period (60%). Satisfactory completion of both project work and the examination is necessary to pass the subject.
<b>Prescribed Texts:</b>	None
<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>Students should acquire and extend valuable, generic skills through solving the problems encountered throughout the subject. These include:</p> <ul style="list-style-type: none"> <li># analytic and problem-solving skills;</li> <li># application of theory to practice in IS database management;</li> <li># written and oral communication skills; and</li> <li># confidence to tackle unfamiliar problems.</li> </ul>

<b>Related Course(s):</b>	Bachelor of Information Systems
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