

433-351 Database Systems

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Twenty-four hours of lectures and approximately 11 hours of tutorials Total Time Commitment: Not available
Prerequisites:	433-253 Algorithms and Data Structures and 433-255 Logic and Computation.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<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>
Subject Overview:	<p>The objectives of this subject are for students to understand the fundamentals of database systems, including data modelling and database design; to understand the languages and facilities provided by database systems; and to understand the implementation of database systems.</p> <p>Topics covered include data models: relational, deductive, object-oriented, network, hierarchical, semantic; database design; relation normalisation; query languages including SQL; integrity; security; concurrency; query processing and optimisation; and implementation of data models and database languages.</p>
Assessment:	A half-hour mid-semester test (10%); project work during semester, expected to take about 36 hours (30%); and one 3-hour end-of-semester written examination (60%). To pass the subject, students must obtain at least 50% overall, 15/30 in project work, and 30/60 in the written examination.
Prescribed Texts:	None
Recommended Texts:	Information Not Available
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<ul style="list-style-type: none"> # ability to apply knowledge of basic science and engineering fundamentals # ability to communicate effectively, not only with engineers but also with the community at large # in-depth technical competence in at least one engineering discipline # ability to undertake problem identification, formulation and solution

Notes:	<p>Students enrolled in the BSc (pre-2008 BSc), BAsC or a combined BSc course will receive science credit for the completion of this subject.</p> <p>Credit may not be gained for 433-351 Database Systems and 433-258 Database Systems for Engineers and/or 615-230 Database Concepts and/or 615-330 Advanced Concepts in Database.</p>
Related Course(s):	<p>Bachelor of Arts Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Computer Science (Bioinformatics) Bachelor of Engineering (Computer Engineering) Bachelor of Engineering (Electrical Engineering) Bachelor of Engineering (Mechatronics) and Bachelor of Computer Science Bachelor of Engineering (Software Engineering) Bachelor of Science Master of Engineering in Distributed Computing</p>