

## INFO20001 Informatics 3: Content Management

<b>Credit Points:</b>	12.50						
<b>Level:</b>	2 (Undergraduate)						
<b>Dates &amp; Locations:</b>	2012, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.						
<b>Time Commitment:</b>	Contact Hours: 2 one-hour lectures (one per week) 1 two-hour workshop (one per week) Total Time Commitment: 120 hours						
<b>Prerequisites:</b>	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>INFO10002 Informatics 2: Programming on the Web</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table>	Subject	Study Period Commencement:	Credit Points:	INFO10002 Informatics 2: Programming on the Web	Semester 1	12.50
Subject	Study Period Commencement:	Credit Points:					
INFO10002 Informatics 2: Programming on the Web	Semester 1	12.50					
<b>Corequisites:</b>	None						
<b>Recommended Background Knowledge:</b>	None						
<b>Non Allowed Subjects:</b>	# 433-351 Database Systems (prior to 2010) # 615-230 Database Concepts (prior to 2009)						
<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>Coordinator:</b>	Dr Linda Stern, Dr Sean Maynard						
<b>Contact:</b>	Dr Sean Maynard email: <a href="mailto:sean.maynard@unimelb.edu.au">sean.maynard@unimelb.edu.au</a> (mailto:sean.maynard@unimelb.edu.au) Dr Linda Stern email: <a href="mailto:stern@unimelb.edu.au">stern@unimelb.edu.au</a> (mailto:stern@unimelb.edu.au)						
<b>Subject Overview:</b>	Contemporary online services such as social networking and multimedia sharing sites, massively multiplayer online games and commerce services are built on content management systems and underlying databases. In this subject, students will learn how to build their own domain-specific content management system, combining web technologies with database technologies. Topics include: <ul style="list-style-type: none"> <li># Collection, modelling and retrieval of information in databases</li> <li># Query languages including SQL</li> <li># Integration of databases with websites</li> <li># Web interfaces</li> <li># Data interchange using XML</li> <li># Transactions</li> </ul>						

	# And a selection of advanced topics in data management
<b>Objectives:</b>	<p>On completion of this subject students should be able to:</p> <ul style="list-style-type: none"> <li># Demonstrate proficiency in solving practical data modelling tasks</li> <li># Design content management systems using relational database techniques</li> <li># Use SQL to interact with a relational database</li> <li># Develop a web-based database application</li> <li># Understand transaction-based data processing</li> </ul>
<b>Assessment:</b>	<p>Project work during semester, expected to take about 36 hours (30%) A mid-semester test (10%) And a 2-hour end-of-semester written examination (60%) To pass the subject, students must obtain at least 50% overall 15/30 in project work And 35/70 in the mid-semester test and end-of-semester written examination combined</p>
<b>Prescribed Texts:</b>	Silberschatz, Korth & Sudarshan, Database System Concepts 6th Ed, 2011
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Arts</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ARTS">https://handbook.unimelb.edu.au/view/2012/B-ARTS</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-COM">https://handbook.unimelb.edu.au/view/2012/B-COM</a>)</li> <li># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-ENVS">https://handbook.unimelb.edu.au/view/2012/B-ENVS</a>)</li> <li># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2012/B-MUS">https://handbook.unimelb.edu.au/view/2012/B-MUS</a>)</li> </ul> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
<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 completion of this subject students should have developed the following generic skills:</p> <ul style="list-style-type: none"> <li># The ability to analyse and solve problems involving large amounts of real-world data</li> <li># The ability to synthesise information and communicate results effectively</li> <li># The ability to work effectively as a member of a project team</li> <li># The capacity for critical and independent thought and reflection</li> <li># The ability to apply knowledge of basic science and engineering fundamentals</li> <li># The ability to undertake problem identification, formulation and solution</li> </ul>
<b>Notes:</b>	This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BAsc or a combined BSc course.
<b>Related Majors/Minors/Specialisations:</b>	<p>Science credit subjects* for pre-2008 BSc, BAsc and combined degree science courses  Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.</p>
<b>Related Breadth Track(s):</b>	Information and the Web