

## SINF90004 Data Warehousing

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	This subject is not offered in 2011. Seminars
<b>Time Commitment:</b>	Contact Hours: 3 hours of seminar discussion per week. Total Time Commitment: Three hours of seminar discussion per week. Students are expected to attend all seminars and actively participate. This requires reading relevant material before the seminar. Students who miss two or more seminars will be required to show cause why they should not be failed in the subject. Students should expect to devote 10-12 hours per week to a single semester unit, with up to 9 hours each week preparing for the class and completing assignments and 3 hours each week in class.
<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>	For the purposes of considering requests for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements for this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Contact:</b>	Prof Graeme Shanks ( <a href="mailto:gshanks@unimelb.edu.au">gshanks@unimelb.edu.au</a> ( <a href="mailto:gshanks@unimelb.edu.au">mailto:gshanks@unimelb.edu.au</a> ))
<b>Subject Overview:</b>	<p>Data warehouses are designed to provide organizations with an integrated set of high quality data to support decision-makers. They should support flexible and multi-dimensional retrieval and analysis of data. Topics covered include data warehousing and decision-making, data warehouse design, data warehouse implementation, data sourcing and data quality, on-line analytical processing (OLAP) and data mining, customer relationship management systems, and case studies of data warehousing practice.</p> <p>On completion of this subject, students should:</p> <ol style="list-style-type: none"> <li>1 be familiar with data ware housing and its relationship to decision-making;</li> <li>2 understand the main concepts underlying data warehouse design and implementation, data quality and retrieval and analysis of data</li> <li>3 be familiar with the role of data warehousing in customer relationship management systems.</li> </ol>
<b>Objectives:</b>	<p>Upon completion of this subject, students should:</p> <ul style="list-style-type: none"> <li># be familiar with data warehousing and its relationship to decision-making;</li> <li># understand the main concepts underlying data warehouse design and implementation, data quality and retrieval and analysis of data;</li> <li># be familiar with the role of data warehousing in customer relationship management systems.</li> </ul>
<b>Assessment:</b>	A 3000 word data warehouse design case study paper due mid- semester (30%); a 3000 word written essay due end semester (30%); a 2-hour written examination in the examination period (40%).
<b>Prescribed Texts:</b>	Shanks, G. (2007). Data Warehousing: Selected Readings , available at the University of Melbourne Book Shop.
<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>	Students should develop skills in literature search and analysis, critical thinking and independent learning.
<b>Links to further information:</b>	<a href="http://www.dis.unimelb.edu.au/current/postgrad/subjects/index.html">http://www.dis.unimelb.edu.au/current/postgrad/subjects/index.html</a>
<b>Related Course(s):</b>	Bachelor of Information Systems (Degree with Honours) Master of Information Systems Master of Information Systems Master of Information Systems Master of Operations Research and Management Science Master of Science (Information Systems)