

INFO20002 Foundations of Informatics

Credit Points:	12.50								
Level:	2 (Undergraduate)								
Dates & Locations:	This subject is not offered in 2014.								
Time Commitment:	Contact Hours: 48 hours, comprising of two 1-hour lectures, one 1-hour tutorial and one 1-hour practical per week Total Time Commitment: 170 hours								
Prerequisites:	<table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>COMP10001 Foundations of Computing</td> <td>Semester 1, Semester 2</td> <td>12.50</td> </tr> </tbody> </table> <p>OR</p> <p>Achieving at least 75% in a programming competency test.</p>			Subject	Study Period Commencement:	Credit Points:	COMP10001 Foundations of Computing	Semester 1, Semester 2	12.50
Subject	Study Period Commencement:	Credit Points:							
COMP10001 Foundations of Computing	Semester 1, Semester 2	12.50							
Corequisites:	None								
Recommended Background Knowledge:	None								
Non Allowed Subjects:	<p>Students cannot enrol in and gain credit for this subject and:</p> <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>Not offered 2014</td> <td>12.50</td> </tr> </tbody> </table> <p>600-152 Informatics-2: People, Data, and the Web 615-240 Concepts of Software Development 2</p>			Subject	Study Period Commencement:	Credit Points:	INFO10002 Informatics 2: Programming on the Web	Not offered 2014	12.50
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INFO10002 Informatics 2: Programming on the Web	Not offered 2014	12.50							
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>								
Contact:	Email: ivow@unimelb.edu.au (mailto:ivow@unimelb.edu.au)								
Subject Overview:	<p>Aims</p> <p>The ability to access, manipulate, organise, analyse and display data are fundamental skills for scientists, historians, managers, financiers, artists and many other professions. This subject explores various computational methods to represent, transform, and make sense of large, diverse sets of data such as share market prices, scientific data or demographic data. This subject is core within the Bachelor of Science for the Major of Informatics. Students completing the Diploma of Informatics can also take this subject.</p> <p>Indicative Content</p> <p>This subject serves as an introduction to informatics. Its main focus is on representing and manipulating data using spread sheet tools; basic web page construction using HTML and style-sheets; representing and manipulating information on the web using a scripting language. These skills form a useful basis for those looking at careers in which the manipulation and visualisation of information takes place.</p>								

Learning Outcomes:	<p>Intended Learning Outcomes (ILO)</p> <p>On completion of this subject the student is expected to:</p> <ol style="list-style-type: none"> 1. Apply the fundamental concepts of the Informatics discipline 2. Manipulate large data sets in various domains 3. Solve practical data management tasks using ICT tools 4. Manipulate live web-based data 5. Communicate information effectively using Informatics tools 6. Appreciate the social implications of computing.
Assessment:	<p>A three-stage project expected to take 48 hours, due around weeks 4, 8, and 12 (total of 60%). About half of the project is to be done individually and the rest in groups. Some assessment may take place in workshops (Intended Learning Outcomes (ILO's) 1-5) 2-hour examination held in the examination period (40%) (ILO's 1-6) To pass the subject, students must obtain: 30/60 for the project work and 20/40 for the end-of-semester written examination</p>
Prescribed Texts:	None
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2014/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2014/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2014/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2014/B-MUS) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p>Upon completion of this subject you should have developed the following generic skills:</p> <ul style="list-style-type: none"> # The ability to analyse and solve real-world problems with computers # Provide clear and constructive critique of other students' work # Synthesise information and communicate results effectively # Work effectively as a member of a project team
Notes:	<p>Learning and Teaching Methods</p> <p>The subject is delivered through a combination of lectures and workshops (combination of tutorial and individual/group work in a computer lab). Students will also complete a three stage project which will reinforce the material covered in class.</p> <p>Indicative Key Learning Resources</p> <p>Students have access to lecture notes, lecture slides, tutorial worksheets, and to the IVLE system which houses a programming environment. The subject LMS site also contains links to recommended resources relating to basic programming, and advanced problems for students who want to extend themselves.</p> <p>Careers / Industry Links</p> <p>This subject builds a foundation of knowledge for those IT careers where data manipulation and management are required.</p>
Related Majors/Minors/Specialisations:	<p>Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED</p>
Related Breadth Track(s):	Working with Information