INFO10001 Informatics 1: Data on the Web

Credit Points:	12.50
Level:	1 (Undergraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus. Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: 5 x one hour lectures per fortnight; and 1 x three hour workshop per week Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	# 615-145 Concepts of Software Development 1 (prior to 2009) # 433-151 Introduction to Programming (Advanced) (prior to 2008) # 433-171 Introduction to Programming (prior to 2008).
Core Participation Requirements:	For the purposes of considering request 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 of 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: http://www.services.unimelb.edu.au/disability/
Coordinator:	Assoc Prof Steven Bird, Mr Ivo Widjaja
Contact:	Email: **ivow@unimelb.edu.au (mailto:ivow@unimelb.edu.au)**
Subject Overview:	In this subject students should discover how to solve problems in domains like business, biology, humanities, linguistics and social sciences, using computing tools. Students should learn various ways of manipulating, analysing, and visualising structured data to solve these problems. Students will explore the data structures for computation, information visualisation, web-centric computing, and human aspect of computing. The subject introduces you to data processing skills using spreadsheets and to fundamental programming constructs using high-level programming language. Students should gain practical experience in solving data-rich problems computationally through a series of workshops, as well as individual and team projects. The problems discussed in the subject will be drawn from a diverse range of topics, e.g. finance, social issues, climate, and language analysis.
Objectives:	On completion of this subject students should be able to: # manipulate structured data by using spreadsheets and writing programs; # evaluate proposed solutions; # understand the social implications of computing; # communicate results effectively using web technologies.
Assessment:	A three-stage project (30%) expected to take 36 hours, with stages due at one-third, at two-thirds and at the end of semester. About two-thirds of the project is to be done individually and the rest in groups. Additional assessment components are a 1-hour mid-semester test (10%), a workshop assignments due in week 9 of semester (10%), and a 2-hour written examination in the examination period (50%).Each of the continuous assessment and the final examination components must be passed in order to pass the subject overall.

Prescribed Texts:	None
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2011/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2011/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2011/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2011/B-MUS)** 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.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	On completion of this subject students should have developed the following generic skills: # analyse and solve real-world problems with computers; # provide clear and constructive critique of other students' work; # discern quality with respect to the goals of the subject; # synthesise information and communicate results effectively; and # work effectively as a member of a project team.
Notes:	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. Students who can demonstrate substantial knowledge of spreadsheets and programming, can apply to sit the proficiency test for Informatics 1. Students who satisfactorily complete the test may be eligible to enrol in Informatics 2. Satisfactory completion of the test qualifies a student for a prerequisite waiver into Informatics 2, but does not entitle a student to course credit for Informatics 1. Please contact the subject coordinator for more information on the proficiency test. VCE mathematics is not a prerequisite for this subject. Previously known as INFO10001 (600-151) Informatics 1: Practical Computing (prior to 2011)
Related Course(s):	Bachelor of Science Diploma in Informatics
Related Majors/Minors/ Specialisations:	B-ENG Software Engineering stream Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses
Related Breadth Track(s):	Information and the Web Computer Science Informatics B Working with Information Information Systems B Information Systems A Information Technology in Organisations Informatics A