800-204 Language and Computation

Credit Points:	12.50
Level:	2 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus. On-campus only
Time Commitment:	Contact Hours: Thirty hours of lectures and twenty hours of workshops (ten 2-hour workshops). Total Time Commitment: -
Prerequisites:	-
Corequisites:	-
Recommended Background Knowledge:	12.5 points of 100-level study in logic, mathematics, informatics, linguistics or equivalent discipline that involves abstract formal reasoning.
Non Allowed Subjects:	-
Core Participation Requirements:	-
Coordinator:	Assoc Prof Lesley Fiona Stirling, Assoc Prof Steven Bird
Contact:	Linda Levey Tel. (03) 8344 4628 Email. llevey@unimelb.edu.au
Subject Overview:	This subject introduces students to formal and computational methods for analysing language. It covers fundamental concepts in the structure and interpretation of sentences, the philosophy of language, applications of information theory, and the limits of machine intelligence. Workshops and group projects will give students practical experience in solving empirical problems involving ambiguous sentences and massive quantities of text, and with writing simple programs in a high-level programming language.
Objectives:	On completion of this subject, students should: # be able to think critically and to organise information in clear and precise ways; # have highly-developed skills in formal reasoning; # be proficient in multi-disciplinary techniques for analyzing language; # have developed experience and skills in working in a group; and # be able to synthesise information and communicate results effectively.
Assessment:	Homework tasks equivalent to 1000 words 15% (completed throughout the semester); two group work project tasks, one completed mid-semester and one completed at the end of semester 20%; a written test 10% (mid-semester); workshop practicipation 5%; and a written exam 50% (examination period.)
Prescribed Texts:	Natural Language Processing in Python (S Bird, E Klein, E Loper, 2009.)
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/2009/D09)** # **Bachelor of Biomedicine (https://handbook.unimelb.edu.au/view/2009/J07)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05)**

	# **Bachelor of Science (https://handbook.unimelb.edu.au/view/2009/R01)** # **Bachelor of Engineering (https://handbook.unimelb.edu.au/view/2009/355-AA)** 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:	-