640-393 Laboratory Work A

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus. Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: Six weeks of contact (three 4-hour sessions per week) Total Time Commitment: 120 hours.
Prerequisites:	Physics 640-299.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr D Hoxley
Subject Overview:	 Students completing this subject will be able to: # demonstrate an understanding of a wide variety of advanced experimental and data analysis techniques; # acquire, analyse and interpret experimental data; and # write and evaluate scientific and technical reports. In addition, students will enhance their ability to: # participate effectively in a laboratory environment and be able to work as part of a team; and # plan effective work schedules and manage their time to meet the deadlines for submission of assessable work. The two subjects 640-393 Laboratory Work A and 640-394 Laboratory Work B are offered sequentially. In both subjects laboratory work draws from a common pool of experiments. Practical experience is available in the following laboratories: nuclear physics, particle physics, diffraction, electronics, atomic physics, optical physics and astronomy. Workshop experience is also available; in some laboratories individual projects can be selected. 640-394 offers the possible extension to research project work.
Assessment:	Ongoing assessment of laboratory work during the semester, consisting of laboratory participation (28%), record keeping (57%) and written reports (15%) up to a total of 9000 words.
Prescribed Texts:	None
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees

Notes:	This subject is available for science credit to students enrolled in the BSc (pre-2008 degree only), BASc or a combined BSc course.
	The standard laboratory sequence taken by most students specialising in physics and wishing to proceed to honours-level studies in physics totals 25 points. This is usually achieved by completing 640-393 and 640-394.
Related Course(s):	Bachelor of Arts and Bachelor of Science Bachelor of Arts and Sciences Bachelor of Science