PHYC30015 Laboratory Work B

Credit Points:	12.50
Level:	3 (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. Practical laboratory classes.
Time Commitment:	Contact Hours: 3 x four hour laboratory classes per week for six weeks during the semester Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	Completion of

Subject	Study Period Commencement:	Credit Points:
PHYC30014 Laboratory Work A	Semester 1, Semester 2	12.50

Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
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:	Dr Roger Rassool
Contact:	**Email: PHYC30015@physics.unimelb.edu.au (mailto:PHYC30015@physics.unimelb.edu.au)**
Subject Overview:	The two subjects PHYC30014 Laboratory Work A and PHYC30015 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. Mechanical workshop experience is also available. In some laboratories individual projects can be selected. PHYC30015 Laboratory Work B offers the possible extension to research project work.
Objectives:	To challenge students to expand their knowledge of fundamental physics principles and develop their capacity 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.
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 equivalent to 9000 words.
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:	A student who completes this subject should be able to: # acquire and interpret experimental data and design experimental investigations # participate as an effective member of a laboratory group. # think independently and analytically, and direct his or her own learning # manage time effectively in order to submit assessable work when required.
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. The standard laboratory sequence taken by most students specialising in physics and wishing to proceed to honours or MSc level studies in physics totals 25 points. This is usually achieved by completing PHYC30014 Laboratory Work A and PHYC30015 Laboratory Work B.
Related Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Chemical Physics (specialisation of Physics major) Physics (specialisation of Physics major) Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses