

610-211 Light, Matter & Chemical Change B

Credit Points:	12.500
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 lectures and 12 tutorials Total Time Commitment: 120 hours
Prerequisites:	One of chemistry 610-141, 610-121 or 610-051 plus one of 610-142, 610-122 or 610-052. 100-level mathematics and 100-level physics are recommended. Concurrent enrolment in 610-215 is strongly recommended.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Credit cannot be gained for this subject and 610-210.
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 participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
Coordinator:	Associate Professor M L Gee
Subject Overview:	<p>Upon completion of 610-211, students should have an appreciation for the rates and mechanisms of enzyme catalysed reactions and environmentally significant atmospheric processes; understand the concepts of entropy and free energy and their application to chemical and biological systems; understand the interactions between molecules and light and its use in the determination of molecular structure; and understand modern views of molecular structure and the interaction of light with matter and its chemical consequences.</p> <p>The subject covers the dynamics of molecular processes; energy transformation and storage in chemical and biological systems; the interaction between molecules and light and its relationship to molecular structure; and molecular structure and the harnessing of energy by absorption of light.</p>
Assessment:	Written assignments not exceeding 30 pages due during the semester (15%); a 3-hour written examination in the examination period (85%).
Prescribed Texts:	Physical Chemistry (PW Atkins), 5th edn, OUP, 1994
Breadth Options:	<p>This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available.</p> <p>2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
Related Course(s):	<p>Bachelor of Engineering (Chemical) and Bachelor of Arts</p> <p>Bachelor of Engineering (Chemical) and Bachelor of Commerce</p> <p>Bachelor of Engineering (Chemical) and Bachelor of Laws</p> <p>Bachelor of Engineering (Chemical) and Bachelor of Science</p> <p>Bachelor of Engineering (EngineeringManagement) Chemical</p>

Bachelor of Engineering(Biochemical Engineering)and Bachelor of Science