CHEM30014 Specialised Topics in Chemistry B

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	This subject is not offered in 2013.
Time Commitment:	Contact Hours: Three one-hour lectures per week; up to two one-hour tutorials per module. Total 42 hours. Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	Completion of **Subject** / **Study Period Commencement:** / **Credit Points:** CHEM30016 Reactivity and Mechanism / Not offered 2013 / 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 website:
Contact:	Director of Third Year Studies **Email:** third-year-director@chemistry.unimelb.edu.au
Subject Overview:	This subject provides a series of specialised modules in the areas of organic, inorganic and physical chemistry. Students choose three modules. Each module consists of 12 lectures. A selection of the following topics will be available: 1 Physical Organic Chemistry, 2 Methods in Organic Synthesis, 3 Photomolecular Science, 4 Complex Materials and Biophysical Chemistry, 5 Computational Chemistry, 6 Supramolecular and Structural Inorganic Chemistry, 7 Metal Ions in Biology and Medicine
Objectives:	Students should develop an advanced perspective on theory and applications across the disciplines of Chemistry. They should obtain problem-solving skills and training in chemistry sufficient to allow them to pursue careers in applied chemistry and chemicals-based research. In the latter case, students should obtain the chemical knowledge needed to be able to complete successfully the honours/masters coursework.
Assessment:	Each of the three modules selected by the student will contribute one third of the marks to the final grade. The assessment for each module will take one of the following two forms:i) One 60 minute exam at the end of the semester (80%) and one or two assignments during the semester which will run concurrently with each of the modules (20%).ii) Several assignments (written and/or oral) conducted during the semester. The assignments will run concurrently with the module.In the first lecture of each module the lecturer will indicate which assessment option will be adopted.

Prescribed Texts:	None
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2013/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2013/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2013/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:	This subject will provide opportunities to enhance the following generic skills: # the ability to comprehend complex concepts and to communicate this understanding; # the ability to analyze and solve abstract and technical problems; # an awareness of advanced technologies in the discipline of chemistry; # the ability to think and reason logically; # the ability to think critically and independently.
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.
Related Majors/Minors/ Specialisations:	Chemical Biotechnology (specialisation of Biotechnology major) Chemical Physics (specialisation of Physics major) Chemistry Chemistry Chemistry Chemistry (specialisation of Chemistry major) Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Core selective subjects for B-BMED.