CHEM30014 Specialised Topics in Chemistry B

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 2, Parkville - Taught on campus.
Time Commitment:	Contact Hours: Three one-hour lectures per week; up to four one-hour tutorials per module. Total 48 hours. Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	.

Subject	Study Period Commencement:	Credit Points:
CHEM30016 Reactivity and Mechanism	Semester 1	12.50

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. This subject requires all students to actively and safely participate in laboratory activities. (Include this or an alternative subject-specific statement if appropriate). 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:	Assoc Prof Uta Wille
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 Heterocyclic Chemistry, 2 Methods in Organic Synthesis, 3 Photomolecular Science, 4 Complex Materials and Biophysical Chemistry, 5 Computational Chemistry, 6 Crystallography and Structural Inorganic Chemistry, 7 Supramolecular Chemistry, 8 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:	One three-hour end of semester exam (80%) and three to six one-hour on-line tests using the learning management system (LMS) conducted during the semester (20%).
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/2010/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/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 Course(s):	Bachelor of Science
Related Majors/Minors/ Specialisations:	Chemical Biotechnology Chemical Physics Chemistry