CHEM30014 Specialised Topics in Chemistry B

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2011, 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:	Completion of

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:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. Hhttp://www.services.unimelb.edu.au/disability/
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 Physical Organic 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:	To address the diversity of material taught in the various modules, there will be several options for assessment. The assessment for the specific module will be announced in the first lecture. Option 1: One one-hour end of semester exam (80%) and one to two assignments conducted

	during the module (20%). Option 2: Several assignments (written and/or oral) conducted during the module (100%).
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/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:	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 (specialisation of Biotechnology major) Chemical Physics (specialisation of Physics major) Chemistry (specialisation of Chemistry major) Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses