CHEM30005 Organic Chemistry IIIB

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	This subject is not offered in 2014. Lectures and tutorials
Time Commitment:	Contact Hours: Three 1-hour lectures per week for 8 weeks (semester 1); and up to six 1-hour tutorials (semester 1); three 1-hour lectures per week for 4 weeks and up to two 1-hour tutorials (semester 2). Total 44 hours. Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	One of **Subject** / **Study Period Commencement:** / **Credit Points:** CHEM20014 Organic and Physical Chemistry 2 / Not offered 2014 / 12.50 CHEM20022 Organic Chemistry 2 / Not offered 2014 / 12.50 CHEM20024 Organic and Inorganic Chemistry 2 / Not offered 2014 / 12.50 # 610-220 Organic Chemistry (prior to 2009) # 610-221 Organic & Bio-organic Chemistry (prior to 2009) Concurrent enrolment in CHEM30006 Organic Chemistry Practical III is strongly recommended.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Credit cannot be gained for this subject and any of **Subject** / **Study Period Commencement:** / **Credit Points:** CHEM30004 Organic Chemistry III / Semester 1 / 12.50 CHEM30016 Reactivity and Mechanism / Semester 1 / 12.50 CHEM30015 Advanced Practical Chemistry / Semester 1 / 12.50 An additional non-allowed subject combination normally exists between this subject and CHEM30017 Specialised Topics in Chemistry A and CHEM30014 Specialised Topics in Chemistry B. However enrolment in either CHEM30017 Specialised Topics in Chemistry A or CHEM30014 Specialised Topics in Chemistry B (with a restricted choice of topics) and this subject, may be approved by the subject coordinator.
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/
Contact:	Director of Third Year Studies **Email: third-year-director@chemistry.unimelb.edu.au (mailto:third-year-director@chemistry.unimelb.edu.au)**
Subject Overview:	This level 3 chemistry subject is for students who commenced studies in chemistry prior to 2008 and intend to complete a Chemistry major. This subject investigates aspects of organic chemistry. The subject includes lecture, tutorials and practical components.

Learning Outcomes:	Upon completion of this subject, students should comprehend the chemical characteristics of various reactive intermediates (carbocations, carbanions and free radicals), and gain an understanding of the principles of orbital-controlled reactions. They should gain knowledge on the methodologies for carbon-carbon bond formation and functional group transformation for the synthesis of organic compounds and the range of agents available to effect these transformations using the various different classes of reactive intermediates. They should comprehend the procedures for determination of the structures of organic compounds by spectroscopic and chemical techniques. Students should also appreciate the importance of rational, critical and independent thought in chemical science and in the understanding of organic chemistry.
Assessment:	To address the diversity of material taught in the various modules of this subject, 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:	J McMurry, Organic Chemistry, 6th Ed. Thomson Brooks/Cole, 2004 (or later editions).
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/2014/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2014/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2014/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2014/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 the student with the opportunity to establish and develop the following generic skills: the ability to comprehend complex concepts and effectively communicate this understanding to the scientific community and in a manner accessible to the wider community; the ability to connect and apply the learnt concepts to a broad range of scientific problems beyond the scope of this subject; the ability to think critically and independently; the ability to problem-solving, and the ability to use conceptual models to rationalise observations.
Notes:	This subject is available for science credit to students enrolled in the BSc (pre-2008 degree), BASc or a combined BSc course.