

## 610-221 Organic & Bio-organic Chemistry

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 36 lectures and 12 tutorials Total Time Commitment: 120 hours
<b>Prerequisites:</b>	One of chemistry 610-141, 610-121 or 610-051 plus one of 610-142, 610-122 or 610-052. Concurrent enrolment in 610-225 is strongly recommended.
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	Credit cannot be gained for this subject and 610-220.
<b>Core Participation Requirements:</b>	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.
<b>Coordinator:</b>	Associate Professor J M White
<b>Subject Overview:</b>	<p>Upon completion, students should have developed an appreciation of the importance of rational, critical and independent thought in the molecular sciences and in their understanding of the chemistry of carbon compounds. Students should have an understanding of the stereochemistry of carbon compounds; the synthesis and some reactions of simple polyfunctional organic compounds, the concept of aromaticity, and the basic types of heterocyclic molecules.</p> <p>The subject covers molecular architecture and its relationship to chemical and biological change; the principles of organic synthesis: C-C bond formation; the fundamentals of aromatic and heterocyclic chemistry, alkaloids, b-lactams and nucleic acid bases; and amino acids, peptides, proteins and carbohydrates.</p> <p>This subject will provide the student with the opportunity to establish and develop the following generic skills: problem-solving and critical thinking skills, the ability to use conceptual models to rationalise observations, and an understanding of the changing knowledge base.</p>
<b>Assessment:</b>	A 1-hour multiple-choice examination held during the semester (10%); a 3-hour written examination in the examination period (90%).
<b>Prescribed Texts:</b>	Organic Chemistry (J McMurry), 5th edn, Brooks/Cole, 2000
<b>Breadth Options:</b>	<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>
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Notes:</b>	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.
<b>Related Course(s):</b>	<p>Bachelor of Engineering (Chemical Engineering)</p> <p>Bachelor of Engineering (Chemical and Biomolecular Engineering)</p> <p>Bachelor of Engineering (Chemical) and Bachelor of Arts</p> <p>Bachelor of Engineering (Chemical) and Bachelor of Commerce</p>

Bachelor of Engineering (Chemical) and Bachelor of Laws  
Bachelor of Engineering (Chemical) and Bachelor of Science  
Bachelor of Engineering (Engineering Management) Chemical  
Bachelor of Engineering (Biochemical Engineering) and Bachelor of Science