

610-245 Inorganic Chemistry Practical

Credit Points:	6.250
Level:	Undergraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: 36 hours of practical work Total Time Commitment: 60 hours
Prerequisites:	One of chemistry 610-141, 610-121 or 610-051 and one of 610-142, 610-122 or 610-052.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	Credit cannot be gained for this subject and 610-240.
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. 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:	Associate Professor C G Young
Subject Overview:	<p>Inorganic chemistry encompasses an enormous and diverse area of chemistry of great practical importance. This subject develops synthetic, analytical and instrumental skills in inorganic, bio-inorganic and organometallic chemistry. A wide variety of synthetic methods, handling procedures and analytical techniques are introduced.</p> <p>The subject consists of the synthesis and characterisation of classes of main group, transition metal and organometallic compounds of technological and medical application. They include peroxy species, phosphates, metal-DNA complexes and metal catalysts. The metals include V, Cr, Fe, Co and Ni as well as Mo and Ru, from the second-row transition metals. These systems are investigated by infrared, NMR and UV-visible spectroscopies; by X-ray powder diffraction; and by magneto-chemistry. They are analysed by quantitative titrimetric and gravimetric techniques.</p>
Assessment:	Ongoing assessment of practical work in the form of short reports due during the semester (100%).
Prescribed Texts:	None
Breadth Options:	<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>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Notes:	Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject.