CHEM30010 Inorganic Chemistry IIIB

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2011, Parkville This subject commences in the following study period/s: Year Long, Parkville - Taught on campus. Lectures and tutorials
Time Commitment:	Contact Hours: Three 1-hour lectures per week for 8 weeks (semester 1); up to eight 1-hour tutorials (semester 1); Three 1-hour lectures per week for 4 weeks and up to four 1-hour tutorials (semester 2). Total 48 hours. Total Time Commitment: Estimated total time commitment of 120 hours
Prerequisites:	One of **Subject** / **Study Period Commencement:** / **Credit Points:** CHEM20025 Physical and Inorganic Chemistry 2 — Year Long — 12.50 CHEM20023 Inorganic Chemistry 2 — Year Long — 12.50 CHEM20024 Organic and Inorganic Chemistry 2 — Year Long — 12.50 # 610-240 Inorganic and Bio-inorganic Chemistry A (prior to 2009) # 610-241 Inorganic and Bio-inorganic Chemistry B (prior to 2009) Concurrent enrolment in CHEM30011 Inorganic 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:** CHEM30009 Inorganic Chemistry IIIA — Year Long — 12.50 CHEM30016 Reactivity and Mechanism — Semester 1 — 12.50 CHEM30015 Advanced Practical Chemistry — Semester 1 — 12.50 Specialised Topics in Chemistry A (without approval of the subject coordinator) and Specialised Topics in Chemistry B (without approval of the subject coordinator) Note: Enrolment in Specialised Topics in Chemistry A or Specialised Topics in Chemistry B (with a restricted choice of topics), together with 610-341, 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/
Coordinator:	Assoc Prof Uta Wille
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 inorganic chemistry. The subject includes lectures and tutorials only.
Objectives:	Upon completion of this subject, students should comprehend the concept of coordination for bonding and metal-ion reactivity, cluster molecules, organometallic species and metal-ion containing biomolecules. They should gain knowledge about the chemical processes occurring at the metal ion centre in catalytic processes ranging from synthetic and technological applications to biologically important enzymatic processes (for example photosynthesis, nitrogen fixation and fuel cells).
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:	C E Housecroft and A G Sharpe, Inorganic Chemistry, 3rd Ed. Pearson Prentice-Hall, 2008.
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/2011/B-ARTS)** # **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 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.
Related Majors/Minors/ Specialisations:	Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses