

CHEM30010 Inorganic Chemistry IIIB

Credit Points:	12.50												
Level:	3 (Undergraduate)												
Dates & Locations:	2010, 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 4 weeks (semester 1); one 1-hour tutorial per week for 4 weeks (semester 1); Three 1-hour lectures per week for 8 weeks and up to eight 1-hour tutorials (semester 2). Total 48 hours. Total Time Commitment: Estimated total time commitment of 120 hours												
Prerequisites:	<p>One of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEM20025 Physical and Inorganic Chemistry 2</td> <td>Year Long</td> <td>12.50</td> </tr> <tr> <td>CHEM20023 Inorganic Chemistry 2</td> <td>Year Long</td> <td>12.50</td> </tr> <tr> <td>CHEM20024 Organic and Inorganic Chemistry 2</td> <td>Year Long</td> <td>12.50</td> </tr> </tbody> </table> <p># 610-240 Inorganic and Bio-inorganic Chemistry A (prior to 2009) # 610-241 Inorganic and Bio-inorganic Chemistry B (prior to 2009)</p> <p>Concurrent enrolment in 610-345 Inorganic Chemistry Practical III (/view/2010/610-345) is strongly recommended.</p>	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
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											
Corequisites:	None												
Recommended Background Knowledge:	None												
Non Allowed Subjects:	<p>Credit cannot be gained for this subject and any of</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>CHEM30009 Inorganic Chemistry IIIA</td> <td>Year Long</td> <td>12.50</td> </tr> <tr> <td>CHEM30016 Reactivity and Mechanism</td> <td>Semester 1</td> <td>12.50</td> </tr> <tr> <td>CHEM30015 Advanced Practical Chemistry</td> <td>Semester 1</td> <td>12.50</td> </tr> </tbody> </table> <p>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.</p>	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
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											
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. 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:	Assoc Prof Uta Wille												
Contact:	<p>Director of Third Year Studies</p> <p>Email: third-year-director@chemistry.unimelb.edu.au (mailto:third-year-director@chemistry.unimelb.edu.au)</p>												

Subject Overview:	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).
Objectives:	Refer to Overview.
Assessment:	Three to four short tests each of duration less than 1 hour conducted on-line during the semester using the learning management system (LMS) for a total of 20%, one 1-hour exam at the end of semester 1 and one 90-min exam at the end of semester 2 (80% for both written exams).
Prescribed Texts:	C E Housecroft and A G Sharpe, Inorganic Chemistry, 3rd Ed. Pearson Prentice-Hall, 2008.
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2010/B-ARTS) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2010/B-COM) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2010/B-ENVS) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2010/B-MUS) <p>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.</p>
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:	Chemistry