

University of Guelph - Department of Chemistry

CHEM 3650 Winter 2015

Chemistry of the Elements II

Lecturer: Prof. Michael K. Denk
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MACN 335, x56711,

Lab coordinator: Dr. Rob Reed

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Lab T.A.s: tba
tba

Prerequisites: CHEM 3640

Objective of the course:

The course covers the chemistry and structure of transition metal compounds; electronic spectral and structural properties of transition metal complexes; mechanisms of their substitution and redox reactions; introduction to organometallic chemistry. In the lab portion of the course, students will then have the opportunity to observe some of these concepts "in action".

Recommended Textbook:

"Shriver & Atkins Inorganic Chemistry, 5th Edition" by Atkins, Overton, Rourke, Weller, Armstrong and Hagerman. W. H. Freeman and Company, 2010, N.Y. (*There is also a solutions manual available for this book*).

Lecture & Lab Times and Dates:

Lectures: MWF 10:30-11:20 h, MacK 225

Lab: Mon., Tue., Wed., or Thurs. 14:30-17:30 h, SCIE 3108

First lecture: Monday, January 5th, 2015

Last lecture: Thu, Apr 2nd,

Winter break: Mon, Feb 16th - Fri, Feb 20th 2015

Holiday: Fri, Apr 3rd

Dropday The last day to drop the course is Fri Mar 6th

Total 36 lecture (12 weeks)

Exams and Deadlines:

Midterm: Mon, Feb 23rd, 2015, in class
Final: TBA

Office hours: Please book an appointment with me by sending me a brief email. Feel free to stop by my office without prior notice, but please be aware that I may be busy and ask you to come back later. You can also ask questions by e-mail and I will respond at the earliest possible convenience, during work hours.

Evaluation:

Theoretical part: 70 % of total mark

Midterm: 28 % (= 40 % of lecture portion)
Final: 42 % (= 60 % of lecture portion)

Laboratory: 30 % of total mark

Lab and lab report marks 30 %

Note: You must achieve 50 % in each of the course segments separately to pass the course, i.e. you must have a minimum of 15 % of your total course marks from the lab and a minimum of 35 % of total course marks from the lecture portion of the course!

E-mail Communication As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

When You Cannot Meet a Course Requirement When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See the undergraduate calendar for information on regulations and procedures for Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Drop Date The last date to drop one-semester courses, without academic penalty, is INSERT DATE HERE. For regulations and procedures for Dropping Courses, see the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Copies of out-of-class assignments Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

Accessibility The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible.

For more information, contact CSD at 519-824-4120 ext. 56208 or email

csd@uoguelph.ca or see the website: <http://www.csd.uoguelph.ca/csd/>

Academic Misconduct The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Recording of Materials Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is

restricted to use for that course unless further permission is granted.

Resources The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs: <http://www.uoguelph.ca/registrar/calendars/index.cfm?index>.