

CHM 6621: ADVANCED INORGANIC CHEMISTRY II

Spring 2017 **Location: CLB 414** **TR 9:35AM – 11:30AM**

Instructor: Leslie Murray

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Office: CLB 410B

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Office Hours: By appointment

Course Description and Objective

To understand how kinetic data can be used to build mechanistic understanding of inorganic reactions.

Suggested Text

Jordan, Robert B., *Reaction Mechanisms of Inorganic and Organometallic Reactions*, 3rd Ed.

Recommended or Reserve Texts

1. Rorabacher, D. B. and Endicott, J. F., *Mechanistic Aspects of Inorganic Reactions*
2. Basolo, F. and Pearson, R. G., *Mechanisms of Inorganic Reactions*
3. Langford, C. H. and Gray, H. B., *Ligand Substitution Processes*
4. Wilkins, R. G. *Kinetics and Mechanism of Reactions of Transition Metal Complexes* 2nd Ed.
5. Espenson, J. H., *Chemical Kinetics and Reaction Mechanisms*, 2nd Ed.

Grades

Grades will be based on

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| 40% | One (1) mid-term exam (date to be announced, and either in class or take home) |
| 40% | End-of-term exam (date to be announced, and either in class or take home) |
| 20% | Problem sets (based on S/U grading) |

For information on UF's Grading Policy, see:

<http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html> and

<http://www.isis.ufl.edu/minusgrades.html>

Problem Sets

Over the course of the semester between five (5) and ten (10) problem sets will be assigned. Typically, these homework assignments will be assigned on the last day of class for that particular week, and due at the beginning of the next class period. Problem sets are open-notes and open-book. You are encouraged to work on problem sets in groups, but you will need to be prepared to explain solutions to all problems individually at the board in class.

Exams

Exams cover all lectures and reading assignments. It is the student's responsibility to ask questions if they do not understand lecture or reading materials. Exams will be either take-home or held during the regular class meeting time. Regardless of the format, exams are open-notes and open-textbooks and **students must work individually**. Make-up exams will only be given by pre-arrangement or under extraordinary circumstances (e.g., medical emergencies).

Attendance and Absence Policy

Attendance will not be included in student assessment but is **strongly** advised as the in-class discussion may diverge from the text. Acceptable reasons for absence from class include illness*, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligation, severe weather conditions, religious holidays, court-imposed legal obligations (e.g., jury duty or subpoena), and participation in official university activities such as music performances, athletic competition, or debate.

*The university's policy on appropriate documentation of absence due to illness can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx> and

<http://shcc.ufl.edu/forms-records/excuse-notes/>

Academic Honesty

Students are required to be honest in their coursework. Any act of academic dishonesty will be reported to the Dean of Students, and may result in failure of the assignment in question and/or the course. For University of Florida's honor code, see <http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>.

Accommodations for Students with Disabilities

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Contact the Disability Resources Center (<http://www.dso.ufl.edu/drc/>) for information about available resources for students with disabilities.

Other Resources: U Matter, We Care

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.