Chemistry 107
Inorganic Chemistry I

Instructor
Professor Jenny Yang
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Office Hours: Tuesday 4:30-5:30 pm, Friday 3-4 pm.

Teaching Assistants: Zachary Thammavongsy (zthammav@uci.edu)
Joseph Solomon (josepbs1@uci.edu)

Teaching Assistant Office Hours: Monday 5:00-6:00 pm (RH 228, Zachary Thammavongsy)
Thursday 5:00-6:00 pm (RH 552, Joseph Solomon)

Course: MWF 9 – 9:50 pm, SSPA 1100

Website: https://eee.uci.edu/17f/40720

Textbook: Inorganic Chemistry, Miessler & Tarr. The course will be based on the textbook and material provided in lecture.

Grading
Homework: 10%
Quizzes: 35%
Midterm (Nov 3 in class): 25%
Cumulative Final (Dec 13, 8-10 am): 30%

All exams will be in SSPA 1100

The midterm will cover material up to the exam. The final will be comprehensive, but will emphasize material covered after the midterm.

Notes on Examinations.
1. Each exam will be closed-book and will include periodic and character tables and constants to use. Students must bring an official UCI Picture Identification Card with them to each examination.
2. All examinations will be taken as scheduled. There are no make-up examinations.
3. Excused absences consist of confirmed illness, unavoidable emergencies, etc. Excused absences are to be cleared in advance if such clearance is possible. An adjusted examination score will be calculated.
4. Absences that are not excused will result in exam scores of zero.
5. Topics to be covered on the examinations will be announced during the course. The examinations will test your knowledge of the material and your ability to use the information to solve problems. The final examination will be cumulative on all material covered in the course.
6. No changes in examination scores will be considered later than one week after their return.

Quizzes.
Quizzes will be both announced and unannounced. There will be approximately one quiz given in class each week starting on the week of the October 2. Quizzes will be given in class and will use clickers.

Homework.
Several problems are at the end of each chapter and will be collected in class the day they are due. These book-based problems will be graded on completeness not correctness. Solutions will be posted by 5 pm the day they are due. The function of these problem sets is to aid you in understanding the material covered in the course. Homework is vital to obtaining a solid grasp of the material and you are
strongly encouraged to make it a high priority. These problems, the reading assignments, and the lecture material will be the subject of your examinations. The key to success is constant attention and review, rather than delay and cramming information immediately before examinations.

I would also encourage you to do as many problems as you can (hopefully every day). There are several other problems at the end of each chapter and it would be to your benefit to do additional problems.

**GRADES.**
Your grade will be "curved" based on the class average. While not receiving letter grades on individual exams may be frustrating, you will be informed of the class average on each exam so that you can gauge your standing. If you need more feedback, please stop by and see me.

**DISCUSSION SESSIONS.**
You should be assigned to a specific discussion session and are expect to attend. Sessions will begin on October 2. Please only go to your assigned discussion session. If you cannot attend your scheduled discussion section because of an unforeseen circumstance, please contact a lecture assistant about a potential alternative. These sessions are designed to help you with questions about the various topics covered in class. No formal lectures will be given—students are required to ask chemical questions. The teaching assistants will supervise these sessions.

**HANDOUTS.**
Throughout the quarter, there will be handouts distributed to the class. All handouts will be posted on the course website and you will be asked to bring them to class when needed. These will be posted before the beginning of the appropriate class period.

**CLASSROOM RULES.**

**Cell Phones.** Please keep your phones on silent during the class. No texting or cell phone use during lecture. I will take any phone I see during lecture and keep it until the end of the class.

**Newspapers, Popular Magazines, Crossword Puzzles, etc.** These reading materials are not allowed in class.

**Laptop Computers and Pads.**

**NO SURFING** the internet is allowed. **PHOTOGRAPHING PRESENTATIONS IS NOT ALLOWED!** Slides that will be provided on the website after class will be marked with a **

**ACADEMIC DISHONESTY.**
This is an unpleasant topic but academic dishonesty will not be tolerated in this course. Punishment will be quick and severe according to the guidelines established by the UCI Academic Senate.

Briefly, **Students have responsibility for:**

1. Refraining from cheating and plagiarism.
2. Refusing to aid or abet any form of academic dishonesty.
3. Notifying professors and/or appropriate administrative officials about observed incidents of academic misconduct. The anonymity of a student reporting an incident of academic dishonesty will be protected.

**DEFINITION OF ACADEMIC DISHONESTY.**
Academic dishonesty applies equally to electronic media and print, and involves text, images, and ideas. It includes but is not limited to the following examples:

**Cheating**
**Dishonest Conduct**
**Plagiarism**
**Collusion**

**CONSEQUENCES FOR ACADEMIC DISHONESTY.**
The two outcomes for academic dishonesty in this course are:
1. A reduction of the grade to an 'F' or zero on the questionable work or examination with written notification to the student and a letter of explanation to the student's file.
2. The student is assigned a failing grade in the course or otherwise lower the grade in the course with a letter of explanation to the student's file.

**ENROLLMENT FOR CHEMISTRY COURSES F17**

— Use WebReg--
(http://www.reg.uci.edu/registrar/soc/webreg.html) to add, drop, or change grade option for your classes.

**Enrollment Deadlines:**

• **ADD/DROP/CHANGE:** The deadline is the end of Week 2 by 5:00PM.
  *Submit an Enrollment Exception via StudentAccess for Add/Drop/Change requests after the deadline.

You are strongly encouraged to consult the Chemistry Undergraduate Office website at http://www.chem.uci.edu/undergrad. You will find answers to your most Frequently Asked Questions.

**The Chemistry Undergraduate Program Office** is located in NS2 1101.
Email: undergrad@chem.ps.uci.edu; Phone: (949) 824-2895; Fax 949.824.8571.

**Open Hours**
Subject to change and listed on the Chemistry Undergraduate Office website.
Monday through Friday from 9:00am-3:30pm. Closed 12-1pm.

**CHEMICAL TOPICS IN CHEM 107**

Chapters 1, 2, & 3 (on your own)

**Tentative Order of Topics**

Chapter 4. Symmetry and Group Theory
Chapter 5. Molecular Orbital
Chapter 9. Coordination Chemistry I
Chapter 10. Coordination Chemistry II
Chapter 11. Coordination Chemistry III
Chapter 12. Coordination Chemistry IV
Chapter 13. Organometallic Chemistry
Chapter 14: Organometallic Reactions and Catalysis
Chapter 6,7,8. if time...