SYLLABUS

**Advanced Inorganic Chemistry**

Class Times: Tues, Thurs: 8 – 9.20, WSH 147  
Instructor: Anne F. Richards,  
Office: Sid Richardson 450, Lab Sid Richardson 476  
Phone: 817-257-6220  Lab : 817-257-5771  
Office Hours: anytime  
TA: 

**Text:** ‘Inorganic Chemistry, 3rd Ed, Miessler and Tarr’  
This text will be loosely followed, there are some aspects in which I will not follow this text at all and will provide handouts. Any inorganic textbook would be suitable for background reading.

**Grading:**  
- Quiz or Exam weekly, quizzes are, from the 10 quizzes (20%)only the best 8 will be used, all exams are counted (30%).  
- Homework will not be assigned weekly; homework that is assigned will be worth 5% of the grade.  
- Short oral presentation (15 mins) worth 10% on an inorganic review topic (set by me).  
- Final Exam = 35 %

**LAST DROP DATE:** WEDNESDAY MARCH 16

**Quiz/Exam Dates**  
January 27  
February 3  
February 10  
February 17:  
February 24: EXAM  
March 3  
March 10  
March 24  
March 31: EXAM  
April 7  
April 14  
April 21  
April 28: EXAM

**FINAL EXAM:** THURSDAY MAY 12 8-10:30

**Protocol**  
- Class Attendance is expected.
• Only in the case of ‘excused absences’ as defined by the university handbook will there be an allowed ‘make-up’ exam or quiz.
• The final exam date will not be changed under any circumstances.
• During quizzes and exams, the university policy of no cheating and honorable work will be applied.

Disabilities Statement:

Texas Christian University complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973 regarding students with disabilities. If you require accommodations for a disability, please contact the Coordinator for Students with Disabilities in the Center for Academic Services, located in Sadler Hall 11. Further information can be obtained from the Center for Academic Services, TCU Box 297710, Fort Worth, TX 76129, or at 817-257-7486. Adequate time must be allowed to arrange accommodations and accommodations are not retroactive; therefore, students should contact the Coordinator as soon as possible in the academic term for which they are seeking accommodations. Each eligible student is responsible for presenting relevant, verifiable, professional documentation and/or assessment reports to the Coordinator. Guidelines for documentation may be found at http://www.acs.tcu.edu/DISABILITY.HTM.

Planned Topics (subject to change).
1: Recap on basic principles.
2: Group Theory
3: Molecular Orbital Theory
4: Solid State Structures
5: Main group Chemistry
6: Co-ordination Chemistry and Aspects of Transition Metal Chemistry
7. Inorganic Chemistry in Biology
8. Organometallics: in particular the preparation, reactivity and structural characteristics.
9. Organometallic Catalysis
10. Cluster Chemistry

***This syllabus and course outline is subject to change at any time at my discretion.***