

**Inorganic Chemistry**  
CHEM 4365, Fall 2018  
MW 3:00pm – 4:20pm, Quinn Hall 103

INSTRUCTOR: Dr. Skye Fortier  
OFFICE: CCSB 2.0404  
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OFFICE HOURS: Wednesday and Friday 9:00am – 10:00am and by appointment

TEXTBOOK: Inorganic Chemistry, Miessler & Tarr, 4<sup>th</sup>/5<sup>th</sup> edition

SUPPLEMENTAL TEXTS: The following texts are useful references and, from time to time, may be used to supplement Miessler & Tarr. These texts need not be purchased.

Cotton, Chemical Applications of Group Theory  
Shriver & Atkins, Inorganic Chemistry  
House, Inorganic Chemistry  
Cotton & Wilkinson, Advanced Inorganic Chemistry  
DeKock & Gray, Chemical Structure and Bonding

**GRADING:**

|                  |     |
|------------------|-----|
| Problem Set #1   | 20% |
| Midterm          | 30% |
| Problem Set #2   | 20% |
| Cumulative Final | 30% |

Course grades are based exclusively on the two problem sets and two exams listed above. “Extra credit” assignments or additional graded work will not be given.

You are highly encouraged to take full advantage of face-to-face time during office hours. To the very best of my abilities, I am happy to clarify or further explain course material.

CLASS TOPICS: Topics and their order are tentative and subject to change

Ch. 1 Introduction to Inorganic Chemistry  
Ch. 2 Atomic Structure  
Ch. 13 Ligand Nomenclature and 18e- rule  
Ch. 9 Coordination Numbers and Isomerism  
Ch. 4 Symmetry and Group Theory  
Ch. 5 Introduction to Molecular Orbital Theory  
Ch. 10 Ligand Field Theory/Crystal Field Theory  
Ch. 13 Bonding between Metals and  $\pi$ -Systems  
Ch. 14 Organometallic Reactions and Catalysis

\*Students are expected to know how to draw Lewis dot structures and must be familiar with VSEPR theory

COURSE DROP DEADLINE: November 2, 2018

CLASS ABSENCE: Attendance is not taken, but it is ill advised to voluntarily miss a lecture. If you have to miss a class session, please get together with a peer to catch up on any notes or material that you have missed. Once you have had an opportunity to review the notes, it would be my pleasure to revisit the material during office hours if you have any questions. However, if you miss a class, I will not repeat the lecture or provide a copy of the class notes.

Class lectures cannot be recorded or filmed unless I give explicit written consent in advance. Permission will only be granted in extraordinary circumstances.

MISSING AN EXAM: If you miss an exam, a valid and documented excuse must be provided (e.g. medical emergency, school field trip or conference attendance, court appearance).

In the case that you are absent due to falling ill, a note from a licensed medical professional (i.e. medical doctor, nurse practitioner, or UTEP Health Center) is required. Otherwise, you must provide compelling evidence of illness or injury, and the decision to make-up the exam will fall at my sole discretion.

If you miss an exam because of a travel issue (e.g. missing your flight or flight cancellation) on a non-UTEP related trip, extensive documentation must be provided demonstrating circumstances beyond your control. You must notify me immediately of your situation. I will evaluate your case and qualification for a make-up exam will be made at my discretion.

It is your responsibility to contact me at the email address listed above to schedule time for a re-take. If you do not contact me at the correct email address to make arrangements within 3 days of the original exam date, a failing grade of 0 will be automatically assigned.

MAKE-UP EXAM: The make-up exam may mirror the original exam, be slightly altered, or altogether changed in form, format and content at my discretion. In the latter two cases, best efforts will be made to maintain the same level of difficulty, but this is not guaranteed.

LATE ASSIGNMENTS: Problem Sets will be collected at the beginning of class on the day they are due. Any assignments turned in beyond this point will be considered late and will receive a 10% deduction. An additional 10% will be deducted for each day the assignment is overdue. Late assignments will not be accepted three days past their due date.

SPECIAL ACCOMODATIONS: If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to [cass@utep.edu](mailto:cass@utep.edu), or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at [www.sa.utep.edu/cass](http://www.sa.utep.edu/cass). *CASS' Staff are the only individuals who can validate and if need be, authorize accommodations for students with disabilities.*

If you are designated special accommodations by CASS, it is your responsibility to coordinate these exam accommodations between CASS and me. If CASS will proctor the examination, it must be scheduled within 3 days of the exam date. Otherwise, you will not be allowed to take the exam and will receive a failing grade of 0 (unless there is a special exception as written in the "MISSING AN EXAM" section above).