**CHEM – 4110-010 - Advanced Inorganic Chemistry**

**Textbooks:**

* *Inorganic Chemistry,* 3rd edition by Miessler and Tarr, Prentice-Hall, Inc. 2004.
* *Inorganic Chemistry: Principles of Structure and Reactivity,* 4th edition by Huheey, Keiter and Keiter, Prentice-Hall, Inc. 1997 (suggested).
* *Concepts and Models of Inorganic Chemistry,* 3rd edition by Douglas, McDaniel and Alexander, John Wiley & Sons, Inc. 1994 (suggested)

**Course Description and Objectives:**

This course is designed for chemistry majors who are interested in inorganic chemistry, as well as for those who will pursue further work at graduate school or employment at chemical industries. It will briefly review the principles and concepts of modern inorganic chemistry including atomic and molecular structure, symmetry and group, bonding, acid and base, and coordination chemistry.

The objective of the course is to provide students with a broad background in inorganic chemistry, and introduce students to fundamental concepts of coordination, organometallic and bioinorganic chemistry.

**Prerequisites & Co-requisites:**

Prerequisite is Physical Chemistry (CHEM 3750/60). Students are assumed to understand basic principles of general and physical chemistry.

**Grading:**

There will be three one-hour exams (20% each) and a final (30%). Missing any one of the one-hour exams will cause the other two to count for 30% each, and the final stays at 30%. If you miss two hour-exams, the third one will count for 30% and the final is 60%. If you miss all three hour-exams, the final then count for 90%. Missing the final will cause a grade of F.

Homework will be assigned but not graded. There will be randomized attendance checks and students are expected to participate in the lecture actively (10%). Final grade will be given based on following:

A = 90 – 100% B+ = 82 – 85% C+ = 70 – 75% D+ = 55 – 60%

A- = 85 – 90% B = 78 – 82% C = 65 – 70% D = 50 -55%

B- = 75 – 78% C- = 60 – 65% F = <50%

**Course Policy:**

A Desire2Learn (D2L) site for this course is available. All announcement, lecture notes, and PowerPoint slides will be posted here.

Classroom – Unless you are a medical or public safety personnel who is on-call during the class period, please switch off your pagers and cell phones. Any distractive behavior of the classroom will be reported and result in potential penalization. No electronic items (cell phones, iPods, etc.) other than simple non-programmable calculators will be allowed during exams. No hats and sunglasses are allowed during exams.

Make up – There are no make-up exams except for University sponsored activities. Arrangements should be made with the instructor in advance.

Academic Honesty – Cheating in class, labs and exams is a serious offence and will not be tolerated. ETSU student handbook: “Academic misconduct will be subject to disciplinary action. Any act of dishonesty in academic work constitutes academic misconduct. This includes plagiarism, the changing or falsifying of any academic documents or materials, cheating, and the giving or receiving of unauthorized aid in tests, examinations, or other assigned school work. Penalties for academic misconduct will vary with the seriousness of the offense and may include, but are not limited to: a grade of F on the work in question, a grade of F for the course, reprimand, probation, suspension, and expulsion. For a second academic offense the penalty is permanent expulsion.”

Special Needs – If you need any academic accommodations such as test-taking or note-taking because of a disability, medical situation or other situations, please come and discuss it with the instructor.