

**Syllabus**  
**Chemistry 3367**  
**Introductory Inorganic Chemistry**  
**Fall 2016**

<b>Course:</b>	Section 01	<b>Time:</b>	10:00-10:50 MWF	<b>Room:</b>	CFS 102
<b>Instructor:</b>	Dr. Richard E. Norman		norman@shsu.edu	<b>Office:</b>	CFS 317 A
<b>Office Hours:</b>	MWF 9:00-9:50; stop by or other times by appt			<b>Phone:</b>	294-1527 (direct)
<b>Webpage:</b>	Under construction				294-1532 (dept)

**Textbook:** Descriptive Inorganic Chemistry  
(required) Geoff Rayner-Canham and Tina Overton, 2014 (6<sup>th</sup> edition)

**Grading matters:** I anticipate three "midterm" exams and a final with the following weighting:

midterm 1	20%	(F Sep 23)
midterm 2	20%	(F Oct 21)
midterm 3	20%	(F Nov 18)
Final	40%	(M Dec 5) 10:30 am-12:30 pm

The final is cumulative and comprehensive. No make-up exams will be given.

There may be additional non-graded assignments (worksheets).

### **Course Description**

It is my initial intention to cover a significant portion of the textbook materials. Since the textbook is 690 pages and we have 41 class meetings, I should be covering 16+ pages per lecture. Most probably, I will edit as I go, with some materials receiving greater attention, and some none at all. Let me also point out that a **lot** of the material is review from general chemistry.

The catalog describes this course as "General principles of inorganic chemistry with an emphasis on descriptive and practical rather than mathematical approach. Periodic relationships of elements and bonding, reactions and synthesis of inorganic compounds, acid-base chemistry are studied."

A critical point to make at the beginning: you must be able to draw a decent Lewis dot structure for the species we will discuss. A major objective for the course is to understand how electronic structure influences chemical behavior. A second major objective is to understand periodicity and the ranges of formal oxidation states to be expected for each group.

**Prerequisite:** You are required to have earned a "C" or better in CHEM 2323 (CHM 238).

**Attendance:** Required—I keep track but it does not directly affect your grade.

**Grades:** The exam weighting is given above. Grades will be assigned based on exam performance. A specific scale will not be pre-announced, but individual grades will be noted on the examinations when I return them.

**General Matters:** Please check your official University email address routinely. Also, make sure that you have officially declared your major/minor (this requires your signature on a piece of paper).

**Additional Syllabi matters:** please see <http://www.shsu.edu/syllabus/> for official policy regarding Academic Dishonesty, Classroom Rules of Conduct, Student Absences on Religious Holy Days, Students with Disabilities Policy and Visitors in the Classroom.

## Suggested Problems:

Chapter 1: 4-14,21,22,24,25.

Chapter 2: 5-10,12,19-22,27,28,31,37.

Chapter 3: 3-6,11-24,27-33,37\*,38\*,39,40,46,47,49.

Chapter 4: 10-12.

Chapter 5: 3,5,6,10-13,15,17,23,24,28.

Chapter 6: 3,4,9,10,18,19,22.

Chapter 7: 3,4,7-19,21-30,33-36,43,44,46,60.

Chapter 8: 3-8,10-19,25,26.

Chapter 9: 10,19,27,32.

Chapter 10: 3,4,6,7,9-11,14,16,17,19,20,23.

Chapter 11: 1-5,7-9,11,12,22.

Chapter 12: 1,2,7,9,11-17,21,22.

Chapter 13: 1-4,10,11,13,14,21,32,40.

Chapter 14: 1,2,5,7-9,12,14,17-19,21,23-25,29-31,34,35,43,44,49,52.

Chapter 15: 1-4,8-10,13,14,16-19,21-23,26,31,33,34,38,63,66.

Chapter 16: 1,2,7-10,17,18,26,28,29,31,33,37,57.

Chapter 17: 1,2,4,11,16,22,26,42,48.

Chapter 18: 1,2,4,5,8,13-15.

Chapter 19: 7-13,17,27,31,32.

Chapters 20-23 — we'll see if we get there.