

Dr. Mark E. Noble

Office: CB 348

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Lectures: MW 8:00 - 9:15, CB 329

This course surveys the general chemistry of the Main Group elements, proceeding in a Group by Group fashion. The nature of the coverage is primarily descriptive. The principal sources of information are the following.

Chemistry of the Elements by N. N. Greenwood and A. Earnshaw, Second Edition

Advanced Inorganic Chemistry by F. A. Cotton, G. Wilkinson, C. A. Murillo and M. Bochman, Sixth Edition

(or *Advanced Inorganic Chemistry* by F. A. Cotton and G. Wilkinson, Fifth Edition)

There will also be information from other sources, including recent literature. Copies of the above three books will be on reserve in Ekstrom Library.

Grading will be based on three regular exams (25% each) and a comprehensive Final Exam (25%). The material for which you are responsible on the exams includes the lecture material and any other material which is specifically designated. The regular exams are standard closed-book exams, taken during regular class time. The Final Exam will be open notes. The tentative dates for all exams are given on the Schedule. These dates are subject to change.

In general, specific numerical information is not required to be committed to memory for purposes of the three regular semester exams, EXCEPT as specifically announced. Such numerical data includes bond lengths, bond angles, percent abundances of the elements, melting/boiling points, etc. You are responsible for trends, comparisons, etc. which can be derived from the numerical information, such as terminal B-H bonds are shorter than bridge B-H bonds, etc. You ARE responsible for the specific numerical values on the Final Exam, since you will have access to your notes. Thus, be certain to record into your notes any numbers which are cited in lecture throughout the semester.

Letter grades are based on the following minimum percentage points.

A+ 86	A 80	A- 77
B+ 74	B 68	B- 65
C+ 62	C 56	C- 53
D+ 50	D 44	D- 41

A numerical value of 40 or less is F. Exams may be scaled up, although this is not intended. Exams may not be scaled down.

Changes to the above and to the Schedule may be made at a later time and will be suitably announced.

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Class	Date		Content
1	8-20	M	VSEPR, H
2	8-22	W	H, G1
3	8-27	M	G1
4	8-29	W	G1, G2
5	9-5	W	G2, B
6	9-10	M	B
7	9-12	W	B
8	9-17	M	B, G13
9	9-19	W	G13, C
10	9-24	M	EXAM I
11	9-26	W	C
12	10-1	M	G14
13	10-3	W	G14, N
14	10-10	W	N
15	10-15	M	N
16	10-17	W	G15
17	10-22	M	G15
18	10-24	W	G15, O
19	10-29	M	EXAM II
20	10-31	W	O, G16
21	11-5	M	G16
22	11-7	W	G16
23	11-12	M	G16, G17
24	11-14	W	G17
25	11-19	M	G17
26	11-26	M	G17, G18
27	11-28	W	G18
28	12-3	M	EXAM III
	12-11	T	FINAL EXAM 8:00-10:30