

SYLLABUS and reading assignments

Text: Inorganic Chemistry, 4th Edition, by Huheey, Keiter, and Keiter (Harper-Collins, 1993).

Lecture classes meet Tuesdays and Fridays, 9:55 AM-11:10 AM, Room S-19.

Instructor: Dr. R. S. Strange
 973-443-8786 (machine on duty)

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<u>Date</u>	<u>Lecture Topic (section)</u>	<u>Reading Assignment</u>
Tue, Jan 24	intro atomic structure terms	Ch 1, 2
Fri, Jan 27	atomic orbitals shielding Slater's Rules	"
Tue, Jan 31	symmetry elements operations groups	Ch 3
Fri, Feb 3	matrix representations irred. reps	"
Tue, Feb 7	chirality polarity vibrational motions	Ch 3
Fri, Feb 10	vibr. abs & Raman scattering hybrid orbitals	"
Tue, Feb 14	ionic bonding Born-Haber	Ch 4
Fri, Feb 17	crystal packing covalent bonding	Ch 5
Tue, Feb 21	molecular orbitals	Ch 5
Fri, Feb 24	Test 1	[Chs 1-4]
Tue, Feb 28	MO – polyatomics	Ch 5
Fri, Mar 2	MO – symmetry	"
Tue, Mar 6	hybridization - %s character	Ch 6
Fri, Mar 9	intro metal complexes	Ch 11
March 12 - 16	spring break - no classes	-----
Tue, Mar 20	cobalt complexes; VB	Ch 11
Fri, Mar 23	Xtal Field; CFSE	"
Tue, Mar 27	CFT; MO (Oh)	Ch 11
Fri, Mar 30	spectroscopy; complex ion spectra	"
Tue, Apr 3	magnetic behavior	Ch 11
Fri, Apr 6	Test 2	[Chs 5-11]
Tue, Apr 10	Coord Nos. 4, 5, 6	Ch 12
Fri, Apr 13	isomerism chelate effect	"
Tue, Apr 17	sq pl substitution reactions	Ch 13
Fri, Apr 20	Oh substitutions	"
Tue, Apr 24	organometallics	Ch 15
Fri, Apr 27	"	"
Tue, May 1	open	-
Fri, May 4	Test 3	[Chs 12-...]
Fri, May 11, 10:00 AM-12:00 PM	Final Exam	cumulative

PROSPECTUS

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Grading and tests:

attendance	05	required (sign in at beginning of class)
assignments	15	written (about one per chapter); distributed by e-mail
tests, 3 @ 20	60	5th week, 10th week, 14th week
final exam	20	Fri, May 11, 10:00 AM (cumulative)
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total	100	

Each test and the final exam will be scaled and curved separately and letter grades assigned. Grades will be combined according to the above weights obtain the overall average, including assignments and attendance.

No make-up tests will be given. The date of the final exam will be announced by the university.

Problem assignments will be made by e-mail periodically as the semester progresses. Additional materials may be posted on WebCampus (when it is available) and also on my web site (alpha address). When WebCampus is down all materials will be available at my web page: look for "Quick Links".