

Chem 509 Group Theory Tentative Course Outline Spring 2015
1:25 – 2:40 pm Tues, Thurs in Todd Hall 434

Instructor: Jeanne McHale Office: Fulmer 102

Phone: 5-4063

Email: jmchale@wsu.edu

Textbook: *Chemical Applications of Group Theory*, 3rd edition, by F. Albert Cotton

<u>Date</u>	<u>Topic</u>
T Jan 13	Introduction to Chem 509 Group Theory and begin Chapter 2, Theorems of Group Theory
Th Jan 15	
T Jan 20	Chapter 3 Molecular Symmetry and Symmetry Groups
Th Jan 22	
T Jan 27	
Th Jan 29	Chapter 4 Representations of Groups
T Feb 3	
Th Feb 5	
T Feb 10	
Th Feb 12	Chapter 5 Group Theory and Quantum Mechanics
T Feb 17	
Th Feb 19	
T Feb 24	Chapter 6 Symmetry-Adapted Linear Combinations
Th Feb 26	
T Mar 3	
Th Mar 5	Chapter 7 Molecular Orbital Theory – Organic Chemistry
T Mar 10	
Th Mar 12	
M Mar 16 – F Mar 20	SPRING BREAK
T Mar 24	Chapter 8 Molecular Orbital Theory - Inorganic Chemistry
Th Mar 26	
T Mar 31	
Th Apr 2	Chapter 10 Molecular Vibrations
T Apr 7	
Th Apr 9	
T Apr 14	
Th Apr 16	
T Apr 21	Chapter 11 Crystallographic Symmetry
Th Apr 23	
T Apr 28	
Th Apr 30	

Friday May 8, 1 – 3 PM FINAL EXAM

Grading

Grades are based on regular homeworks, two midterms and one final exam. The homeworks will be assigned at least one week before the due date, and no late homeworks will be accepted unless special arrangements are made with the instructor. Students are permitted to work together on homeworks and may also seek the instructors help, but direct copying of one another's homeworks will be penalized by assigning a grade of zero. Exams, on the other hand, must be worked individually, whether take-home or in-class, and the penalty for cheating on exams will be to receive a grade of F for the course.

Final grade will be based on

Homeworks (scaled to)	200
Two Midterms	200
<u>Final Exam</u>	<u>150</u>
	550 points

86 – 100%	A
60 – 85%	B
40 – 59%	C

Students with Disabilities

Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations must be approved through the Access Center. For more information contact a Disability Specialist