Introductory Quantum Chemistry and Spectroscopy  
(Chem 212/Chem 760), Spring 2017  
(With extra homework and test problems for Chem 760)  
Dept. of Chemistry and Biochemistry, Queens College, CUNY

Location  
Remsen 105

Time  
Lectures: 8:30 am - 10:20 am, MW

Pre/Co-reqs: PHYS 1464 and 1451  
Pre-reqs: Grade of C or better in CHEM 1144, 1141, MATH 152 (or MATH 143), and PHYS 1454 and 1451.

Instructor Information  
Instructor: Prof. Seogjoo Jang  
Office: Remsen 119 C  
Office hours: Wed: 11 am - 1 pm  
Tel: (718) 997-4110  
Email: SJang@qc.cuny.edu  
Website: http://chem.qc.cuny.edu/~sjang

Textbook  
Quantum Chemistry and Molecular Interactions, Andrew Cooksy (Pearson, 2014)

References  
1. Quantum Chemistry and Spectroscopy (3rd Ed.), Thomas Engel (Pearson, 2013)  

Objectives  
1. Understanding the major concepts of quantum mechanics and solving simple Schrödinger equations  
2. Gaining quantum mechanical understanding of atoms, molecules, and chemical bonding  
3. Understanding major principles of molecular spectroscopy and interactions

Evaluation and Grading  
Quiz 1  
Chaps. 1 - 2  
50 pts  
Feb. 15
Quiz 2  
Chaps. 3 - 4  
50 pts  
Mar. 13
Mid-term Exam  
Chaps. 1 - 5  
300 pts  
Mar. 27
Quiz 3  
Chap. 6  
50 pts  
Apr. 19
Quiz 4  
Chap. 7  
50 pts  
May 1
Final Exam  
Chaps. 1 - 10  
400 pts  
May 18
Homeworks  
5 sets  
100 pts  
TBD
Total  
1000 pts

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* Grade for borderline case is determined based on attendance.

Any kind of academic dishonesty will be punished by zero credit or disciplinary charge.