Physical Chemistry II (Chem 314)

Department of Chemistry and Biochemistry, Queens College, City University of New York

Spring, 2006

Location and Time

Razran 304, 9:20-10:50 Mon. and Wed.

Instructor Information

Instructor: Prof. Seogjoo Jang
Office and hours of contact: Remsen 119 C, 11:00am - noon, Mon. and Wed.
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Website - http://chem.qc.cuny.edu/~sjjang

Textbook

Physical Chemistry, 7th Ed. by Atkins and de Paula (W.H. Freeman and Company)
Chapters covered: 11-20, 24

Objective

1. Introduction to quantum mechanics and quantum chemistry
2. Introduction to atomic and molecular spectroscopy
3. Basic concepts and applications of statistical mechanics

Evaluation and Grading

<table>
<thead>
<tr>
<th>Exam</th>
<th>Points</th>
<th>Date</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>200</td>
<td>Feb. 27</td>
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<tr>
<td>Exam 2</td>
<td>200</td>
<td>Mar. 22</td>
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<tr>
<td>Final Exam</td>
<td>300</td>
<td>May 22</td>
</tr>
<tr>
<td>Homework</td>
<td>300</td>
<td>One homework for each chapter, except for Chap. 24</td>
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Tentative plan of lecture

Chap. 11 (Jan. 30, Feb.1); Chap. 12 (Feb. 6, 8, 15); Chap. 13 (Feb. 15, 21, 22)
Exam 1, Feb. 27 - Covers Chaps. 11-13

Chap. 14 (Mar. 1, 6); Chap. 16 (Mar. 8, 13, 15), Chap. 15 (15,20)
Exam 2, Mar. 22 - Covers Chaps. 14-16

Special topics - Mar. 27, 29
Chap. 17 (Apr. 3, 5, 10); Chap. 18 (Apr. 24, 26); Chap. 19 (May 1, 3)
Chap. 20 (May 8, 10); Chap. 24 (May 15, 17)
Final Exam, May 22 - Chaps. 11-13 (10 %); Chaps. 14-16 (20 %); Chaps. 16-20, 24 (70 %)