SYLLABUS

Course: CHEM 352L (Experimental Quantum Chemistry; 1 unit)
Prerequisites: CHEM 352
Lecturer: Dr. Jussi Eloranta
E-mail: Jussi.Eloranta@csun.edu
Office: Eucalyptus Hall 2025
Office hours: Tue and Thu 2:00 – 3:00 pm.
Laboratory: Tue 8:00 – 10:50 pm. 3 hours / week of laboratory work in CS3306
Content: Chemical applications of thermodynamics and chemical kinetics
Deadlines: The last day to turn in the lab reports is the last day of classes.
Makeup experiments: There is no additional time to rerun experiments.
Web page: http://www.csun.edu/~jeloranta/CHEM352L/

1. Table of contents

1. Excited-state properties of 2-naphthol: the acidity constants (part I)
2. Excited-state properties of 2-naphthol: deprotonation/protonation rate constants (part II)
3. Dynamic NMR spectroscopy
4. Gas phase IR spectroscopy (HCl)
5. IR/Raman spectroscopy and molecular modeling

2. Grading

A tentative grading scale is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Exam score</th>
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<tbody>
<tr>
<td>A</td>
<td>90 – 100 points</td>
</tr>
<tr>
<td>B</td>
<td>75 – 90 points</td>
</tr>
<tr>
<td>C</td>
<td>65 – 75 points</td>
</tr>
<tr>
<td>D</td>
<td>50 – 65 points</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 50 points</td>
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The overall grade is taken as an average of the individual laboratory experiments.

3. Academic dishonesty

By enrolling in this class, you agree to abide by all California State University, Northridge policies of academic honesty and integrity. Students violating these standards will receive a zero for the work in question and will have their case referred to the Student Affairs Office for appropriate disciplinary action. See pages 586-589 of the 2008-2010 California State University, Northridge catalog for details of the University policies.