Chem 205
Light and Matter
Tuesday and Thursday 2:30 – 3:45 pm – OSB 101 - Spring 2020

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Office Hours:  Tuesday 4:00 -5:00 pm, Wednesday 8:30- 10:00 pm, and by appointment.

Oxford College and Liberal Arts. Oxford College is dedicated to a liberal arts education, and science, including chemistry, is an integral part of the liberal arts.

Goal:
To integrate the “cartoon” models often used for describing these topics with rigorous math, real molecules, and molecular applications

Course Materials:
- Textbook(s):
  Paperback: ISBN 9780199609819
  Hard copy: SBN-13: 978-1464108747
  ISBN-10: 1464108749
- Canvas Site
- Scientific calculator, Mathematica/MATLAB, and Spartan

Exam Schedule.
Exam Material Covered Projected Date

<table>
<thead>
<tr>
<th>Exam</th>
<th>Tentative Date</th>
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<tbody>
<tr>
<td>I</td>
<td>Feb 7</td>
</tr>
<tr>
<td>II</td>
<td>March 24</td>
</tr>
<tr>
<td>III</td>
<td>April 9</td>
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</tbody>
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Final Exam:
Wednesday, May 6, 2020    Time:9:00 AM-12:00PM (lecture Time)

*Exams (1-III) may be moved when necessary; changes will be announced in class and on the class canvas site. Let me know ahead of time if there is any conflict. The Final Exam will be taken as scheduled. Account for the schedule of exams as you make your travel plans.
**Grading**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Exams (3)</td>
<td>45%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>23%</td>
</tr>
<tr>
<td>Homework Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Quizzes, In-Class Assignments &amp; Group Assignments</td>
<td>12%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100</strong></td>
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**Grading scale.**

Grades are normally assigned as follows:

- 93.0 and up A
- 90.0 – 92.9 A-
- 87.0 – 89.9 B+
- 83.0 – 86.9 B
- 80.0 – 82.9 B-
- 60.0 and below F
- 77.0 – 79.9 C+
- 73.0 – 76.9 C
- 70.0 – 72.9 C-
- 67.0 – 69.9 D+
- 60.0 – 66.9 D

Grades are assigned based on your performance in the course (exams, quizzes, worksheets, attendance etc.) and are not open for discussion after being assigned.

Grades are not automatically rounded. If you are near a border of 2 grades, consideration is given to such items as attendance, improvement over the semester, and class participation.

Grading errors:

If there are any errors or you have questions, submit a request in writing for a re-grade in writing no later than 3 days after the exam was returned. Please note that, if you request a regrade, I will check the whole assignment or exam paper. You may lose or gain points in the process.

Quiz and Exam keys will be posted on Canvas after the exam is returned in class. Do not download the keys.

**Course Policies**

**Course Schedule**

The schedule and reading assignments will be posted and updated on the class canvas site.

**The course schedule is subject to change at the discretion of the instructor.**

**Attendance and Make-up**

No make-up examinations will be given. Any excuse for missing an exam or conflicts such as religious holidays or school-related trips should be presented before the scheduled exam by email. Emory’s official list of religious holidays may be found at [http://www.religiouslife.emory.edu/faith_traditions/holidays.html](http://www.religiouslife.emory.edu/faith_traditions/holidays.html).

If possible, you will take the exam at an earlier date. For other acceptable excuses such as illness or family emergency, the final exam will replace the missed exam. If the excuse is not considered acceptable, the exam grade will be a zero. Note that missing an exam also counts as an absence in the course. The grade on the final exam can only replace one missed exam; additional missed exams will...
receive a grade of zero.

Students are expected to attend all regular scheduled meetings. It is in your best interest to come to lectures. I encourage you to notify me in the event of an emergency, which may result in an absence.

You are allowed 3 absences without any point loss. If your cumulative absences exceed 3, points will be deducted as follows:

1. 1 point for 4 absences
2. 2 points for 5 absences
3. 3 points for 6 and beyond absences

The points will be deducted from your final class average.

You will lose one point for coming to class LATE twice. Coming into class after I have finished checking the roster counts as LATE. If you come to class 15 minutes late or leave the class early, that counts as an ABSENCE.

No make-up exams or quizzes will be given. Snow days do not count as absent.

Quizzes & Other In-Class Assignments

The problems are designed to provide formative assessments of your progress and improve your learning experience. These will include assignments include, but not limited to, in–class problems, follow-up problems, worksheet assignments, quizzes, and research-type problems. These are given on an ongoing basis. You will be notified in class the assignments that will be graded.

The nature of questions will vary from conceptual to application-type questions. You are expected to work independently. Always bring your scientific calculator to class. You will drop your lowest grades in this group. No make-up assignment will be given.

Practice Problem Sets

Practice problems sets will be posted at the end of the chapter. The problem sets are designed to build your skills and simultaneously provide me with the opportunity to assess areas that need re- emphasis to ensure that you understand the essential material. You are allowed and encouraged to come and check your answer with me. You are expected to read the literature in the required textbook, and complete all assigned assessment exercises prior to attending class in order to actively and meaningfully participate during each lecture.

Group Assignments

For most of the worksheet assignments, you will work in groups and each member will be assigned the group score. You may be asked to assign percentage contributions for each member of the group, if there is a complaint about lack of cooperation with groups. You will be assigned half the group score, if your contribution is less than 50%, but not zero, of the highest group member contribution. Group assignment grades contribute to your final average. Late worksheets will be graded but 2 points deducted for each day past the deadline.
**Electronic Devices**

Use of cell phones, iPad, laptops etc. will not be allowed during class activities. If there are special circumstances where you need to use your electronic device in class, please make arrangements with me beforehand. If there are sections of the course that would require us to use any of these electronics, you will be advised.

**Academic Honor**

It is the student’s responsibility to understand the rules and procedures of the Oxford College Academic Honor Code ([http://oxford.emory.edu/catalog/regulations/honor-code.html](http://oxford.emory.edu/catalog/regulations/honor-code.html)). Exams and quizzes require independent effort. You are encouraged to seek help from other students, instructor or any other sources for your practice problem sets. You must acknowledge any assistance, collaboration or sources used. Do not simply copy answers from the solution’s manual. It is important for you to understand the process and rationale leading to the answer.

**Accommodations**

The Office of Accessibility Services (OAS) works with students who have disabilities to provide reasonable accommodations. In order to receive consideration for reasonable accommodations, please contact the OAS and complete the registration process. Faculty may not legally provide you with accommodations until an accommodation letter has been processed and discussed with them; accommodations do not start until this point and are not retroactive. Students registered with OAS who receive a letter outlining specific academic accommodations are thus strongly encouraged to immediately coordinate a meeting with their professors to discuss a protocol to implement accommodations that will (or may) be needed over the course of the semester. This meeting should occur as early in the term as possible. Contact Megan Bohinc in OAS for more information at (770) 784-4690 or oas_oxford@emory.edu

**Additional Information and Handouts**

Additional helpful handouts and resources will be posted on Canvas.

**Student work submitted as part of this course may be reviewed by Oxford College and Emory College faculty and staff for the purposes of improving instruction and enhancing Emory education.**

Enjoy!