Chem_OX 150 Fall 2019

Structure and Properties

Instructor: Dr. Simba Nkomo
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Email: simbarashe.nkomo@emory.edu

Office Hours

Drop-in and office hours: **Wednesday** 11:00 –12:00 pm, **Friday** 1:00 – 3:00 pm, and by appointment (email for availability).

Class Schedule

**Section 3:** Monday, Wednesday, and Friday, 8:00 am –8:50 am, **OSB 415**

**Section 2:** Monday, Wednesday, and Friday, 10:00 am –10:50 am, **OSB 423**

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.

Supplementary Instructor (SI): Alexis Miller (alexis.ann.miller@emory.edu)

The schedule for SI meetings will be provided via Canvas.

Learning goals

The primary goals of this class are

- Utilize critical thought and reasoning to understand chemical behavior at the microscopic and macroscopic levels.
- Develop solutions to problems which you have not encountered before.
- Apply physical chemistry principles to address current challenges in our everyday lives.

Course Materials

Required

- ALEKS Registration Code will be made available.
- Scientific calculator: TI-30Xa or TI-30X II preferred (others subject to instructor approval)
- Molecular Visions or MolyMod molecular model kit

Recommended

- Solutions manual (a copy is available on reserve in the library)
**Grading**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Exams (4)</td>
<td>64%</td>
</tr>
<tr>
<td>Quizzes, Pre-Lecture</td>
<td>3%</td>
</tr>
<tr>
<td>Assignments &amp; Participation</td>
<td></td>
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<tr>
<td>Final Exam</td>
<td>22%</td>
</tr>
<tr>
<td>Connect Assignments</td>
<td>5%</td>
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<tr>
<td>ALEKS</td>
<td>6%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
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The final exam is cumulative and it will be worth 200 points. Divide by 2 to put the final exam on a 100-point scale. If your final exam grade (on a 100-point scale) is higher than your lowest exam grade, that exam grade will be replaced by your grade on the final exam.

Your final exam will NOT replace your lowest grade, if

1. you missed an exam for a reason that was not acceptable.
2. you violated the honor code

Any attendance penalty will be applied to the final class average.

**Exams Schedule**

<table>
<thead>
<tr>
<th>Exam</th>
<th>Tentative Date</th>
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<tbody>
<tr>
<td>I</td>
<td>Sept 20</td>
</tr>
<tr>
<td>II</td>
<td>Oct 11</td>
</tr>
<tr>
<td>III</td>
<td>Nov 11</td>
</tr>
<tr>
<td>IV</td>
<td>Dec 6</td>
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**Final Exams**

- Section 2: Monday, December 17, Time: 9:00 am – 12:00 pm
- Section 3: Tuesday, December 16, Time: 2:00 pm – 5:00 pm

Exams (1–IV) may be moved forwards or backwards as necessary; this 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.

**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. 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.
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–
- 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
- 60.0 and below F

Grades are assigned based on your performance in the course (exams, attendance) 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 items such 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.

Quizzes, Pre-Lecture Assignments, and Participation

Quizzes will be administered as a form of formative assessment and are worth 1% of the final grade. Details of will be announced through Canvas. These will be 10 points each and will take about 10 minutes to complete. 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 quiz. No make-up quiz will be given. Quizzes will not be rescheduled to another day in the event of weather related college closure or holiday falling on a Friday. No quizzes will be administered on the week of an exam.

Pre-Lecture Assignments. These will be short assignments to help you prepare for class. The assignments include, but not limited to, watching videos and answering a few questions. The assignments constitute 1% of your final grade.

Participation includes contributing to class and group discussions and completion of assigned worksheets. Participation contributes 1% to your final grade.

ALEKS

There will be assignments on ALEKS that you will need to complete by the date given. ALEKS problems will be graded and contribute to your final grade. ALEKS will give you additional practice and tutoring on content you need to master as you also prepare for your class exams. Please read the ALEKS registration document on Canvas. Be sure to look at the ALEKS calendar because credit will be given to work completed by the due date.

Connect Assignments

Connect assignments are summative assessments for each module. The assignments are accessed through the etextbooks. Connect assignments are graded electronically. If for some reason your answer is graded as wrong and you believe it is correct, please take a screenshot and email me the problem.
**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.

**Academic Honor**

It is the student’s responsibility to understand the rules and procedures of the Oxford College Academic Honor Code. 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. The goal for this class is to help you understand the process and rationale leading to the answer.

**Review**

A review session will be held before the exam. The reviews will not take up the whole class period. You are encouraged to bring questions.

**Attendance**

Students are expected to attend all regular scheduled meetings. It is in your best interest to come to lectures. 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.

Snow days do not count as absent.

**Electronic devices**

Use of cell phones, ipads, 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 an of these electronics, I will advise you ahead of the specific lecture.

**Additional information and handouts**

Additional helpful handouts and resources will be posted on Canvas.
Proper Behavior in Class.
Class is a learning environment; expected behavior includes:

- Coming to class on time and being attentive in class
- Not going in and out of class (unless you're sick) – please get a drink or use the restroom before or after class
- Not working on material for another class
- Not using a cell phone in class. You will be penalized for using a cell phone during class activities
- Not using a laptop computer to class unless you need a computer to assist you in class and you have made arrangements with me
- Bringing your handouts and calculator to each class

- Not respecting the learning environment in class can affect your grade and future recommendation