

**QUEENS COLLEGE OF CUNY  
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY  
CHEMISTRY 251.4 – FALL 2015  
LECTURE SYLLABUS**

Professor Robert Engel  
Class Hours: Tu/Th 1415-1605  
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Remsen 252A

CHAPTER	TOPIC TITLE	DATES
1	Bonding	Aug 27, 27, Sept 1
2	Structure, Functional Groups	Sept 1,3
3	Acid-Base Interactions	Sept 3, 8, 8, <b>17</b>
4	Structure of Alkanes	Sept 17, 24, <b>29</b>
5	Methanol and Ethanol	Sept 24, Oct 1, 1, <b>6</b>
<b>Examination I – Chapters 1-4</b>		<b>Oct 8, 8</b>
6	Alcohols	Oct 6, 13, <b>15</b>
7	Carbocations and Radicals	Oct 13, 15, <b>20</b>
8	Stereochemistry	Oct 20, 22, 22, 27, <b>29</b>
9	Alkenes I	Oct 27, 29, Nov 2, <b>5</b>
<b>Examination II – Chapters 5-9</b>		<b>Nov 10, 10</b>
10	Alkenes II	Nov 2, 5, <b>12</b>
11	Halides and Organometallics	Nov 12, 17, 17, <b>19</b>
12	Substitutions and Eliminations	Nov 19, 24, 24, <b>26</b>
13	Alkanes	Nov 26, Dec 1, <b>3</b>
14	Ethers and Epoxides	Dec 1, 3, 8, <b>8</b>
<b>Examination III – Chapters 10-13</b>		<b>Dec 10, 10</b>

Lecture sessions are held on dates indicated in standard font; recitation sessions are held on dates indicated by **bold font**. Examinations are given as scheduled. For recitation sessions you should be prepared to ask questions regarding material in the text or lecture that was not clear to you, and **be prepared to answer problems assigned from the appropriate chapters of the text**. You should read each chapter **before** coming to the lecture on that topic, and you should work the problems of the appropriate chapter **before** coming to recitation for that chapter.

TEXT – Baker, Rizzo, and Engel, *Organic Chemistry*, latest edition. The text is provided to you at no charge to the student either on line at the course website or *via* CD provided to you. It is provided in MSWord.

LABORATORY TEXT – For those students taking the laboratory portion (Chem 251.1), the text is: Williamson, *Organic Experiments, 9<sup>th</sup> Edition*, Brooks-Cole Cengage Learning ISBN-10: 0618308423(2004) – In addition, laboratory notes provided to you on the course website should be consulted for each laboratory session. Each student is expected to perform in each experiment *individually* – no

teams doing experiments. Students should also purchase a set of molecular models. We will use molecular models extensively in the lecture, recitation, and laboratory, and you *will* be permitted to use them in the lecture examinations.

GRADING – Examinations (3) during regular class hours (100 minutes in length), 40% of course grade; Final Examination, 2.5 hours in length, date to be announced, 40% of course grade; In-class recitation problem performance, 10% of course grade; Literature (hard copy and Internet) problem reports, 10% of course grade. On the course website are listed a schedule of problems for student presentation in recitation sessions. You should expect to be called upon (randomly, more-or-less) to “perform” by answering the assigned problems (with supplemental related questions by RE) in recitation sessions. Literature problems will be assigned *in class* at the beginning of the Tuesday classes on 8 September and 3 November. First drafts are due, respectively on 22 September and 17 November respectively, *in the in-box of Prof. Engel’s email before 2400 of that day. All drafts and final reports are to be submitted in MSWord and should be sent from an email that clearly indicates who is submitting the report. Drafts will be returned to you by email ASAP.* Final reports are due in the inbox of Prof. Engel’s email before 2400 of 10 October and 1 December, respectively. Submit both draft and Final Report to Prof. Engel’s email, [robert.engel@qc.cuny.edu](mailto:robert.engel@qc.cuny.edu), as an **MSWord attachment** to your email message. You must be present for all scheduled examinations, problem presentations (recitations), and laboratory sessions (for those registered for the laboratory). In the unlikely event that you miss one of the aforementioned sessions, *written* verification of a valid (medical – physician; legal – judge, immigration officer, desk sergeant, *etc.*) is required before an alternative is approved. For laboratory sessions, approval means you will be rescheduled to do the laboratory work during another laboratory session *no later than two weeks after the session missed*. You must get the permission of the host instructor before being allowed to so make-up a missed laboratory session, as well as have a valid, verified excuse. For missed (validly) examination or recitation session, *no make-up examination or problem session is given; after validation of absence, the average grade of other class examinations or problem presentations will be taken as the official grade.* Do not miss a Final Examination as this will require you making up such Final Examination at the end of the Chemistry 251.4 course the following semester (Spring 2016) and you will not be able to register for Chemistry 252.4 in spring 2016. Without written verification of a valid excuse for an absence, a grade of zero (0) will be assigned for such missed examinations or presentations.

Neither cheating nor plagiarism in any form will be tolerated. All work presented by you, by the fact that you present it, is certified by you to be your own work completely. Any act of plagiarism or cheating, in examinations, recitation, literature reports (or laboratory for those enrolled in the laboratory), will be reported to the Vice President for Student Affairs for action, in addition to terminal modification of the grade for the course.