

**QUEENS COLLEGE OF CUNY
DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY
CHEMISTRY 252.4 – SPRING 2016
LECTURE SYLLABUS**

Professor Robert Engel

Remsen 252A

Office Hours: M, W: 1530-1630

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Course Website: <http://chem.qc.cuny.edu/~rengelChem252>

Lecture & Recitation: M, W: 1830-2020

CHAPTER	TOPIC TITLE	DATES
15	Alkadienes and Alkynes	Feb. 1, 1, 3
16	Molecular Orbital Concepts	Feb. 3, 8, 8, 10, 17
17	NMR and IR	Feb. 10, 17, 22, 22, 24
18	Benzene and Its Derivatives	Feb. 24, 29, 29, Mar. 2, 7
Examination I – Chapters 15-18		Mar. 9, 9
19	Aldehydes and Ketones	Mar. 2, 7, 14, 16
20	Amines	Mar. 14, 16, 21, 28
21	Carboxylic Acids	Mar. 21, 28, 30, April 4
22	Derivatives of Carboxylic Acids	Mar. 30, April 4, 6
Examination II – Chapters 19-22		April 13, 13
23	Enamines and Enolates	April 6, 11, 11, 18
24	Carbohydrates	April 18, 20, 20, May 2, 4
26	Amino Acids	May 2, 4, 9, 9, 11
XX	Chemistry of Biological Systems	May 11, 16, 16
Examination III – Chapters 23, 24, 26, XXX		May 18, 18

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 chapter**. You should read each chapter before coming to the lecture on that topic, and you should work the problems within the appropriate chapter before coming to recitation for that chapter.

TEXT - - Engel, Baker, Rizzo, *Organic Chemistry – Preliminary Edition*, Cognella - - ISBN 978-1-63487-362-8 - - Call 800-200-3908 Ext. 503.

LABORATORY TEXT - - Williamson, *Organic Experiments, 9th Edition*, Houghton-Mifflin (2004) – In addition, laboratory notes should be consulted for each laboratory session. You should purchase a set of molecular models. We will use models extensively in the lecture, recitation, and laboratory, and you *will* be permitted to use them in the lecture examinations. Each student is expected to perform each experiment *individually* – no teams doing experiments.

GRADING - - Examinations (3) during regular class hours, 40%; Final Examination (2.5 hours in length, date to be announced), 40%; In-class recitation problem performance, 10%; Literature (Internet/e-mail) problem reports, 10%. On the website are listed a schedule of problems for student presentation in recitation session. 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 classes on 10 February and 30 March. First drafts are due before midnight (2400) two weeks following the initial assignment (24 February and 13 April respectively). Final reports are due before midnight two weeks later; that is, on 9 March and 4 May [allowance is made for Spring Recess]. Drafts and reports should be prepared using MSWord *only*. Comments on your first drafts will be returned to you ASAP using the same program with comments embedded in the reply. Reports are to be submitted to Prof. R. Engel using the e-mail address: Robert.engel@qc.cuny.edu. You should check on the website for the Model Manuscript to verify format of report and particularly the format for reference citation.

You must be present for all scheduled examinations, problem presentations (recitations), and laboratory sessions (for those registered in 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 that you will be rescheduled to do the laboratory work during another laboratory class. For examination or recitation, *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, or a grade of INC will be submitted for the Final Examination. Note that missing the Final Examination means that you 1) *must* take the Final Examination given for that course at the end of the following (Fall 2016) semester, and 2) you will be ineligible to take any course during Fall 2016 having a prerequisite of Chem 252.4. *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 laboratory), will be reported to the Vice President for Student Affairs for action, in addition to modification of the grade for the course.