Queens College of the City University of New York
Department of Chemistry and Biochemistry
Basic Organic Chemistry

Chem 102.3-1 Lecture Syllabus Spring 2017

Lecture: Tuesday/Thursday 1:40 – 2:55 pm, Remsen 101
Instructor: Joseph Ocando
Office Hour: TBD
Telephone: (347)534-6779
E-mail: jocando@qc.cuny.edu, joe.ocando@gmail.com


Molecular model kit (recommended)


Grading:
Quizzes/Participation = 10%
3 Midterm Exams = 60%
Final Exam (Comprehensive) = 30%

See the MasteringChemistry section of page 3 on how to register for the online course in order to complete homework. In addition to your e-mail address and Access code or credit card the following Course ID is required to enroll for the online MasteringChemistry course: MCOCANDO23254

The final exam will be the American Chemical Society General-Organic-Biochemistry exam:
Organic Part A and B, Biochemistry Part A.
Exams will stress lecture material and homework problems.
Bring photo ID to exams.

You will not be permitted to use books, molecular models, notes, computers, or calculators during exams. Cell phones are strictly prohibited for class and exams. If you have any questions concerning the grading, see me within 7 days following the exam. All re-grade requests must be made in writing and attached to the exam; do not under any circumstances write anything on the exam itself. Exams are Xeroxed prior to being returned. There are no make-up exams. Written verification of your reason for missing an exam is required; your grade will be based on the exams you have taken.
You will need access to Blackboard for handouts. It is your responsibility to provide a valid e-mail address that you monitor. Announcements will be made via Blackboard and e-mail. The text contains many problems similar to those that will be given on exams. You should do the problems that appear in the body of the text and at the end of each chapter. There will not be any graded homework.

### Approximate Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>Jan. 31, Feb. 2</td>
<td>Chapter 12 Alkanes</td>
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<tr>
<td>Feb. 7-9</td>
<td>Chapter 13 Alkenes, Alkynes, Aromatics</td>
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<tr>
<td>Feb. 14-21</td>
<td>Chapter 14 Compounds with Oxygen, Sulfur, or a Halogen</td>
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<tr>
<td>Feb. 23-28</td>
<td>Chapter 15 Amines</td>
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<tr>
<td>Mar. 2</td>
<td>Exam 1 Chapters 12, 13, 14</td>
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<tr>
<td>Mar. 7-9</td>
<td>Chapter 16 Aldehydes and Ketones</td>
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<tr>
<td>Mar. 14-16</td>
<td>Chapter 17 Carboxylic Acids and Derivatives</td>
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<tr>
<td>Mar. 21-28</td>
<td>Chapter 18 Amino Acids and Proteins</td>
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<tr>
<td>Mar. 30</td>
<td>Exam 2 Chapters 15, 16, 17</td>
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<tr>
<td>Apr. 4-6</td>
<td>Chapter 18 Amino Acids and Proteins</td>
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<tr>
<td>Apr. 25-27</td>
<td>Chapter 21 Carbohydrates</td>
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<td>May 2 - May 9</td>
<td>Chapter 23 Lipids and 25 Nucleic Acids</td>
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<tr>
<td>May 11</td>
<td>Exam 3 Chapters 18, 21, 23, and tentatively 25</td>
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<tr>
<td>May 16-18</td>
<td>Chapter 25 Nucleic Acids</td>
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<td>TBA May 22-May 26</td>
<td>Final Exam All chapters (including 25)</td>
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### Course Objectives:

Students will learn basic structural organic chemistry, including structures and nomenclature of hydrocarbons and compounds containing the most common functional groups including halides, alcohols, thiols and disulfides, amines, carbonyl compounds including aldehydes, ketones, carboxylic acids, esters, and amides, and an introduction to biological molecules including amino acids, proteins, carbohydrates, lipids, and nucleic acids. Stereochemistry will be introduced, and students will learn to draw structures and convey three-dimensional information about structures. Reactions of these compounds will be introduced and mechanisms of some reactions, but spectroscopy will not be covered in this course. At the conclusion, students will have a foundation that will allow them to enter a course in basic molecular biochemistry.

### Course Requirements:

Prerequisites for Chem 102.3: C or better in Chem 101.3 and 101.1, or C or better in Chem 113.4 and 113.1
Pre or corequisite: Chem 102.1 (C or better if prerequisite)
Note: a C- in any pre or corequisite will not permit you to take 102.3/102.1!
You must earn a C or better in Chem 102.3 and 102.1 to take Chem 103.3 and 103.1
Getting started with MasteringChemistry

First, make sure you have these 3 things:
Email: You'll get some important emails from your instructor at this address.
Course ID: The Course ID is MCOCANDO23254
Access code or credit card: The required access code comes either with your book or by itself at your bookstore. Alternatively, you can buy instant access with a credit card or PayPal account during registration. Next, get registered!

1. Go to www.masteringchemistry.com. Under the large Register Now section on the right side of the page, click the Student button.

2. Read the onscreen instructions and select your location. Next, check off whether or not you have an Access Code. Click Next.

3. If you don’t have an access code, select your textbook (correct title, author, and edition) and whether you want an eText.

4. You’ll then be asked to Accept the License Agreement before moving on. After this, either Create a new Pearson username/password, or, if you’ve already registered for another Pearson product (i.e. MyMathLab), enter that username/password. If you have an Access Code, enter it on the bottom of the page.

5. On the next page, fill out the appropriate information fields then click Next. If you entered an Access Code, you will be brought to a page from which you can access your product. If not, enter your payment information so that you can Purchase Access, after which you’ll be granted access.

6. You are now registered! Now, it’s time to enroll in your course. Click Log In Now. Once signed in you can: enter your Course ID (listed above) and your Student ID (if prompted to do so). If you don’t have a course ID, you can join a course and launch the eText or study area. That’s it!

Need help?
Visit www.masteringchemistry.com for:
• Helpful videos
• Frequently Asked Questions
• Set Up Your Computer
Or visit our 24/7 Technical Support site at http://247pearsoned.custhelp.com