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 prerequisite 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

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.

Information about recorded online classes and office hours

Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image.

Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

Lecture: Wed. 6:30 - 9:20 PM, Rm 100 Remsen Hall

Professor Yu Chen, 206F Remsen Hall
Office Hour: Monday & Wednesday, 4:00 PM -4:50 PM
Telephone: 718-997-4132
E-mail: yu.chen1@qc.cuny.edu

LECTURE TEXT: Fundamentals of General, Organic, and Biological Chemistry, McMurry, Ballantine, Hoeger, and Peterson, 8th Edition

Molecular model kit (Sets from Amazon for about $25 look fine, such as MMS-008 and MM-003)


REQUIRED ON-LINE PROBLEMS: You are required to purchase access to the Sapling Learning on-line problem web site for this course. The cost is $42. Enroll at: http://bit.ly/saplinginstructions. Sapling Learning offers a grace period on payment (14 days from the first day of class). During sign up or throughout the term, if you have any technical problems or grading issues, send an email to support@saplinglearning.com explaining the issue. The course is listed under “CUNY Queens College - CHEM 102.3 – Spring21 - CHEN.” Problems will be graded and deadlines are listed on the web site. For
Approximate schedule and problems. There is a training module (with extra credit) that you should complete before you start on the chapter problems.

While studying organic with other students is recommended, you will get the maximum benefit from these problems by doing them on your own.

There will be three 100-point mid-term exams, and one 100-point ACS final exam, to be held during lecture hours as scheduled.

The online homework from Sapling Learning is counted as 10% in the final grade. The three midterm exam grades are counted as 20% each; and the final exam grade is counted as 30%.

Grading: 3 Midterm Exams 60%
On-line Homework 10%
Final Exam (Comprehensive*) 30%
Total 100%

*The final exam will be the American Chemical Society General-Organic-Biochemistry exam, Organic Part A and B, Biochemistry Part A. There is no study guide for this particular exam, but questions will be similar to those on the midterm exams.

Exams will stress lecture material and recitation 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 Dr. Chen within 10 days following the release of your exam grades. 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. [Note. There are no make-up exams for midterms.]

If you are ill on a scheduled exam day and cannot take an exam, you should provide a medical doctor's note to Dr. Chen immediately after you recover. Each of the rest two mid-term exams you take is counted as 30% in the final grade.

Grading Scale: (A)/91-100; (A-)/86-90; (B+)/81-85; (B)/76-80; (B-)/71-75; (C+)/66-70; (C)/61-65; (C-)/56-60; (D)/51-55; (F)/<50.

Accommodations: If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with Dr. Chen immediately.

APPROXIMATE SCHEDULE AND PROBLEMS. 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. Selected answers may be found in the Study Guide; there will not be any graded homework other than the on-line Sapling homework. The following are the Additional Problems at the end of each chapter for which you are responsible, along with approximate scheduled lecture topics and expected topics for each exam.

<table>
<thead>
<tr>
<th>Date</th>
<th>Chp</th>
<th>Topic</th>
<th>Problems</th>
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<tbody>
<tr>
<td>Feb. 3</td>
<td>12</td>
<td>Alkanes</td>
<td>12.22-33, 36, 37, 38, 39, 40, 42-44, 46-54, 55, 56, 62-66</td>
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<td>Feb. 17</td>
<td>14</td>
<td>Compounds with Oxygen, Sulfur, or a Halogen</td>
<td>14.21-29, 32a-d, 34, 35, 38, 40-52, 58, 63, 69-70</td>
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<tr>
<td>Mar. 3 Exam 1 Chapters 12, 13, 14</td>
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<td>March 17</td>
<td>17</td>
<td>Carboxylic Acids and Derivatives</td>
<td>17.37, 38, 39, 42, 43, 44, 46, 48, 54, 55, 58, 62, 69,</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, but mechanisms of reactions, synthesis, and 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.

Assessment: Problem solving ability will be tested using exams; while memorization of naming conventions and reactions will be required, the emphasis will be on understanding structures of organic compounds. Sample problems and answers both in the book and on the course web site will be representative of the material that will be found on exams.