

 **SYLLABUS** **COURSE INFORMATION**

Time: Monday & Wednesday 10:00 - 11:20 am

Instructor: Professor Elena Galoppini

Office: LSC 301d

Email: galoppin@newark.rutgers.edu

Office Hrs: Wednesday 11:30 am -12:30 pm (Zoom)

Textbook:

"Introduction to General, Organic and Biochemistry" Bettelheim, Cengage (see below)

Course Description:

Basic organic chemistry with emphasis on the molecules and reactions encountered in biochemistry. principles of structure and reactivity in organic chemistry.

Course Modality:

This course is delivered **fully online**. Via Blackboard

<https://blackboard.rutgers.edu/webapps/login/>

INSTRUCTOR INFORMATION

Instructor: Professor Elena Galoppini

Email: galoppin@newark.rutgers.edu

Phone: 973-353-5317

Office Location: Chemistry Department LSC I room 301-D

IMPORTANT DATES

Academic Calendar Spring 2021: <https://registrar.newark.rutgers.edu/registrar-spring-academic-calendar-0>

Directory: <https://academicaffairs.rutgers.edu/academic-calendar-directory>

Classes begin: Tuesday, 19 January

Classes end: Monday 3 May

Last day to drop this course without a "W" grade: Tuesday, January 26 (subject to change)

Spring Break: 13 - 21 March

Spring Exams: 6 May – 12 May

SOME COURSE RULES

- Please be punctual: classes start at 10:00 exactly
- Zoom Lectures will be recorded and posted online
- emails that are not in a formal letter format and that do not have salutation and signature will be ignored.
- Please feel free to email (galoppin@newark.rutgers.edu) if you need to make an appointment with me

- **ABOUT VIDEOS : videocasts (videos) are protected by copyright laws.** The copyright ownership of the videocasts and podcasts vests in either the Professor teaching the course, or to Rutgers University to the extent applicable. The copyright owner of the videocasts grants you a non-exclusive and limited license only to replay them for your own personal use during the course. Sharing them with others (including other students), reproducing, distributing, or posting any copyright protected part of the videocasts or podcasts elsewhere-including but not limited to any internet site-will be treated as a copyright violation and an offense against the honesty provisions of the Code of Student Conduct.

GRADING POLICY**3 eighty-minute exams**

- During the semester there will be 3 eighty-minute exams on selected chapters (Exam 1, Exam 2 and Exam 3)
- **Make-up policy:** the worse score OR one missed exam (for any reason) will be dropped to avoid any need for make-up exams.
- 60% of the course grade will be based on the remaining 2 exams.

Final exam

- At the end of the semester there will be a comprehensive (i.e. all chapters) final examination. 40% of the course grade will be based on this final.

- Letter grades will be assigned based on the total from the final (40%) + the 2 exams (30 and 30 %), according to the following scale:

A (100-90), B+ (89-88), B (87-80), C+ (79-78), C (77-70), D (69-65), F (64-0).

COURSE SCHEDULE

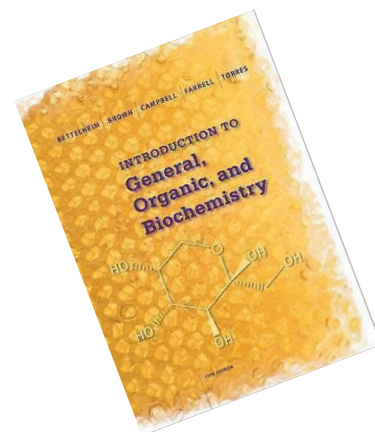
JANUARY		
Wed	20	Chapt. 10 intro-Organic Chemistry
Mon	25	Chapt. 11 Alkanes
Wed	27	
FEBRUARY		
Mon	1	Chapt. 12 Alkenes & Alkynes
Wed	3	
Mon	8	Chapt. 13 Benzene and derivatives
Wed	10	
Mon	15	Exam 1 (Ch. 10, 11, 12, 13)
Wed	17	Chapt. 14 Alcohols, ethers, thiols
Mon	22	
Wed	24	Chapt. 15 Chirality
MARCH		
Mon	1	
Wed	3	Chapt. 16 Amines
Mon	8	
Wed	10	Exam 2 (Ch. 14, 15, 16)
<i>13-21 March Spring Break</i>		
Mon	22	Chapt. 17 Aldehydes and ketones
Wed	24	
Mon	29	Chapt. 18 & 19 Carboxylic acids and derivatives
Wed	31	
APRIL		
Mon	5	
Wed	7	Chapt. 20 Carbohydrates
Mon	12	
Wed	14	Exam 3 (Ch. 17, 18&19, 20)
Mon	19	Chapt. 21 Lipids
Wed	21	
Mon	26	Chapt. 22 Proteins
Wed	28	
MAY		
Mon	3	Part of Chapt. 23 Enzymes
COMPREHENSIVE (Ch. 10-23) FINAL EXA TBD		

TEXTBOOK & OTHER RESOURCES**Textbook:**

Bettelheim/Brown/Campbell/Farrell/Torres Cengage Learning
11th edition or 12th edition

other resources:

- Powerpoints used in class will be made available ahead of time
- Lectures will be recorded.
- A summary of lecture will be updated every week and made available on Blackboard

**Online Resources**

- You will find useful online material for this course with [Cengage Unlimited](#).

CONCEPTS TO REVIEW ON YOUR OWN ASAP!!

- Electronic structure of atoms
- Lewis model of bonding and Lewis structures
- Ionic and covalent bonds
- Polarity in molecules
- Intermolecular forces
- acids and bases

[Student Textbook Resource \(Cengage\) Registration Instructions](#)

Information coming soon

SUGGESTED END OF CHAPTER HOMEWORK PROBLEMS FROM TEXTBOOK

Homework will not be graded but selected problems will be in exams. Selected End-of-Chapter Problems from the text Book. (note that these numbers do not match the homework EOC problems online)

Chapter 10 (organic)

15, 17, 26, 28, 30, 44, 46, 49, 52, 54, 55, 59.

Chapter 11 (alkanes)

14, 15, 16, 18, 20, 21, 24, 26, 28, 29, 31, 33, 34, 39, 40, 41, 50, 52, 55, 59, 64, 65, 66, 67, 69, 70, 74.

Chapter 12 (alkenes alkynes)

12, 14, 15, 16, 19, 20, 22, 23, 24, 25, 26, 29, 31, 32, 34, 39, 41, 42, 46, 50, 52, 56, 62, 63, 76, 78, 81.

Chapter 13 (aromatics)

4, 10, 11, 13, 14, 15, 18, 19, 25, 31, 32, 33, 37, 39, 45, 48, 50, 51, 52, 53, 54, 57.

Chapter 14 (alcohols ethers thiols)

10, 12, 13, 14, 16, 17, 18, 22, 24, 26, 28, 29, 32, 37, 38, 43, 45, 47, 48, 52, 53, 54, 57, 59, 61, 63, 65, 68, 71, 73, 74, 75, 76.

Chapter 15 (chirality)

8, 10, 11, 12, 16, 17, 19, 21, 22, 23, 25, 26, 29, 31, 32, 35, 36, 37, 45, 46, 47.

Chapter 16 (Amines)

11, 12, 13, 14, 16, 21, 25, 26, 27, 28, 30, 32, 37, 41, 45, 48, 50, 52, 53, 54, 55, 59.

Chapter 17 (aldehydes and ketones)

13, 17, 18, 19, 20, 22, 24, 25, 26, 27, 28, 29, 33, 37, 39, 40, 43, 44, 49, 50, 51, 52, 55, 56, 57, 59, 61, 63, 64, 68, 70, 73, 74, 76, 78, 79.

Chapter 18 (Carboxylic acids)

5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 18, 20, 22, 24, 26, 28, 29, 31, 33, 34, 35, 36, 38, 39, 41, 42, 44, 45, 46, 48, 49, 51, 54.

Chapter 19 (anhydride, esters, amides)

4, 5, 7, 8, 9, 10, 11, 12, 13, 18, 22, 26, 28, 29, 31, 33, 34, 35, 38, 41, 43, 44, 46.

Chapter 20 (carbohydrates)

7, 10, 12, 15, 19, 20, 21, 22, 26, 29, 32, 35, 40, 41, 45, 46, 47, 48, 52, 59, 62, 64, 69, 72, 73, 82

Chapter 21 (Lipids)

4, 5, 6, 8, 10, 11, 13, 15, 17, 20, 25, 28, 32, 35, 36, 43, 44, 54, 69, 84, 86, 90, 91

Chapter 22 (Proteins)

10, 12, 14, 15, 18, 20, 22, 23, 25, 30, 43, 44, 50, 52, 56, 59, 60, 61, 62, 63, 67, 68, 71, 72, 73, 74, 87, 89, 91, 92, 95, 99

Chapter 23, (Enzymes)

1, 4, 5, 9, 10, 11, 13, 15, 17, 19, 22, 25, 27, 48, 49, 70, 77, 79, 80, 87.

ACADEMIC POLICIES AND PROCEDURES

Attendance Policy:

ATTENDANCE WILL BE TAKEN AT THE BEGINNING OF CLASS

You are responsible for material covered in any class that you do not attend. If you miss a class, you must contact a classmate or me for the missed information. If you have a situation that might cause you to miss an entire week of class, discuss it with me as soon as possible.

This course adheres to Rutgers University policies on academic integrity.

For more information, visit: <http://academicintegrity.rutgers.edu/> and <http://academicintegrity.rutgers.edu/resources-for-students/>

STUDENT CODE OF CONDUCT

Students are required to adhere to the [University Student Code of Conduct](#) delineated in the Rutgers Student Affairs website [Student Conduct](#) page:
<http://studentconduct.rutgers.edu/student-conduct-processes/university-code-of-student-conduct/#1495568095620-2f5ce77d-17dd>

ACCOMMODATIONS

Students requiring special accommodations must make arrangement with the Office of Disabilities Services (ODS) and follow the procedures of that office. It is the student's responsibilities to make advance arrangement by contacting the office of disabilities services and to get all the necessary paper work done at least three working days in advance before each exam. It is the student's responsibilities to contact the professor at least three working days in advance before each exam. Special accommodations based on ODS do NOT in any way lessen students' responsibilities required of all students including but not limited to regular class attendance. The same strict policy on missing exams outlined above will be applied to all students. <https://ods.rutgers.edu/contact-ods>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>.

If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process see <https://webapps.rutgers.edu/student-ods/forms/registration>.

STUDENT SUPPORT SERVICES**Academic Services:**

- For academic support visit Rutgers Academics Student Support at <https://www.rutgers.edu/academics/student-support>
- Any student can obtain tutoring and other help at the [Learning Centers](#) on each campus. Check the website at <https://rlc.rutgers.edu/>
- For coaching help with writing skills and assignments visit the [Writing Coaching](#) webpage at <https://rlc.rutgers.edu/student-services/writing-coaching>
- Many library resources are available online. Assistance is available through phone, email, and chat. For information, check the [Rutgers Libraries](#) website at <https://www.libraries.rutgers.edu/>

Rutgers Student Health Services:

For more information visit: <http://health.rutgers.edu/>

Veteran Services:

Please visit the [Office of Veteran and Military Programs and Services](#) website for more information: <https://veterans.rutgers.edu/>