Welcome to Preparation for Organic Chemistry! This course is meant to review and expand upon topics from general and organic chemistry that are crucial for your success in organic chemistry. This course alone, while hopefully helpful, is not enough to ensure your success in organic. Please take this opportunity as a chance to learn how to study for organic, and as a good foundation for acquiring more advanced knowledge that will be essential in the future.

If you have questions about the material or are struggling, please contact me. I want you to succeed, but I cannot help you if you do not let me know that there is a problem. I look forward to our semester together!

Course description: An introductory course in chemistry designed to help students who intend to take organic chemistry

Course Co- and Pre-requisites:
Pre-requisites: Chem 111, Chem 111L, and Math 111 or 120 or equivalent

Student Learning Outcomes
- Draw, name, and interconvert between different types of structural representations of organic molecules
- Draw and interpret three dimensional structures for different isomers
- Draw and interpret general features of curved arrow notations
- Understand and use fundamental concepts and trends in acidity

Recommended Materials:
- Textbook: *Chemistry: Atoms First*, third edition, by Julia Burge and Jason Overby (can use electronic version) OR

Important Dates:
Wed., May 23rd Last day to withdraw from Maymester courses

Tentative Class Schedule / Course Topics:
Monday, May 14th Intro, Lewis structures
Tuesday, May 15th Resonance, Geometry, and Hybridization
Wednesday, May 16th Molecular representations; basic nomenclature
Thursday, May 17th Nomenclature; Isomers
Friday, May 18th Enantiomers and R/S notation
Monday, May 21<sup>st</sup> review; Midterm exam
Tuesday, May 22<sup>nd</sup> Regioisomers, Diastereomers, meso compounds etc
Wednesday, May 23<sup>rd</sup> Reaction mechanisms and curved arrow notation
Thursday, May 24<sup>th</sup> Trends in polarity and acidity
Friday, May 25<sup>th</sup> Conformational analysis in cyclohexane and acyclic systems

Tuesday, May 29<sup>th</sup> 8:30-11:30 AM Final Exam

**Grading Scale:**

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<th>Grade</th>
<th>Minimum</th>
<th>Maximum</th>
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**Course Grade:**

- 25% Final
- 20% Midterm
- 30% Participation / Homework
- 25% Quizzes

**Participation / Homework:** This class is meant to be highly interactive. You are expected to contribute to our discussions by asking questions and volunteering answers. You’ll also be expected to present solutions for various problems to the class during our time together. Part of doing so will be working constructively in pairs. Doing the homework will be essential to your contribution to the class and your participation grade so you can ask effective questions.

**Midterm/Quizzes:** There is one midterm exam scheduled for the semester. It is cumulative for the material we have covered so far. A short quiz will be given at the beginning of each class period and will cover the material from the previous class.

You will be given a periodic table; it is the same one that is posted on OAKS. Cell phones and translators may not be used. You may be required to follow a seating chart. In order to receive credit for an answer, you must show work that demonstrates a logical thought process to arrive at the correct answer. You must also use legible handwriting.

**Final exam:** 8:30-11:30 AM Tuesday May 29<sup>th</sup>

**Academic Honesty:** While I encourage you to study together, academic misconduct, cheating, and plagiarism will not be tolerated. If you participate in academic misconduct, you will receive a zero for the assignment. You will also be reported to the dean, and you may be given a failing grade in the class. Academic misconduct is defined in the handbook. You may not copy, allow another person to copy or otherwise knowingly assist them in a disallowed manner, plagiarize, use disallowed sources of information (cheat sheet, cell phone), or falsify data, among possible offenses. Using a calculator to store equations or text is also cheating. Use of a wireless communication device, such as a phone, during an exam is a violation of the honor code. Please see the school’s honor policy in the handbook for more details.
Center for Disability Services/ SNAP Students Needing Access Parity: If you are approved for accommodations by SNAP, please let me know as soon as possible. You are responsible for contacting me at least one week in advance of any accommodation needed. If you have a documented disability that you need accommodation for in this class, please contact SNAP at 843-953-1431 to arrange.

Other Class Policies:
Attendance: Because of the nature of this class, attendance is mandatory. I will take attendance every class period. Please be on time. If you have more than two absences (excused or unexcused), you will receive a failing grade of WA.

If you are not in class you will lose participation points for that class period as well as get a 0 for the quiz that day.

Courtesy: This class should be a positive learning experience for you. Please be courteous and arrive on time, turn off or silence your cell phone, refrain from conversations, and stay awake!

Successful studying: An important part of the class is practicing what you learn by doing homework problems. You are responsible for bringing all materials to each class. You will also have problem sets to help you practice the material.

The best way to succeed in chemistry is by practicing lots of problems. There is no substitute for working problems. Don’t wait until the last minute! You can’t cram for a chemistry exam.

A course website will be maintained on OAKS with quiz keys, worksheets, and other information. It is your responsibility to be aware of resources on OAKS.

Communication: Email is the best way to contact me. Please notify me of all important issues via email, even if you have already talked to me about it! I will send out emails to the whole class containing important information about class materials, due dates, upcoming assignments, etc. It is important that you check your email frequently.

As always, if you have any questions or special circumstances arise, please let me know as soon as possible. It is easier to solve a problem that I know about ahead of time.

This syllabus is subject to change with appropriate notice.