

## Course Syllabus

Course Number: Chem 2425

Trimester Credit Hours: 4

Course Title: Organic Chemistry I

Total Contact Hours Per Trimester: 90

Course Director: Carissa Manrique

Office Hours: M 9-10:50pm; T-R 1-1:50pm

### COURSE DESCRIPTION:

Our mission is to provide students with core knowledge in basic sciences so they can become successful as Parker students, on board exams, in treating patients, and eventually becoming chiropractors and leaders in the field of wellness.

The topics covered that will be covered in Organic II are The topics covered will be reactions of alcohol, carboxylic acid and its' derivatives, amines, thiols, ethers, and aromatics. In addition, NMR, IR and MS spectra will be covered

### GENERAL APPROACH TO TEACHING:

I learn more about the teaching process and tools and techniques for engaging students and improving classroom techniques, I hope to become a stronger teacher, and leave students with a better understanding of science. I employ several active learning techniques, in an attempt to keep students involved. To get students involved in the process of learning, I have found that giving varied assignments and multiple examples are effective techniques

### ESTIMATE OF STUDENT WORKLOAD:

The estimated work load for this class is approximately 1hr studying/1hr lecture

### LEARNING OUTCOMES:

At the completion of this course, the student should be able to:

1. Draw resonance structures for various organic chemistry reactions
2. Predict synthetic steps in an organic chemistry reaction
3. Recognize chemical functional groups
4. Recognize different amino acids and their interactions

**Lab Objectives:** At the completion of this course, the student should be able to:

1. Know common glassware and use
2. Perform organic chemistry reactions
3. Separate mixtures
4. Read various organic instrumentation spectra

**ASSESSMENT:**

The student will be assessed through quizzes, discussion questions, lecture exams, papers and a project.

**PREREQUISITES:**

Enrollment in Parker University, High School chemistry, College algebra, General chemistry I and II

**REQUIRED TEXTBOOKS:**

“Organic Chemistry” 7<sup>th</sup> ed L.G. Wade

**RECOMMENDED ADDITIONAL TEXTBOOKS:**

**SUPPLIES:**

Access to a computer that is compatible with the My Parker website and can support the course resources, basic calculator with log functions, scantrons, pencils

**GRADING SYSTEM:**

Evaluation is an integral part of the educational process and is used as an educational tool to help students identify problem areas, to recognize and reward achievement, and to identify students who are unable to meet the rigors of the curriculum. Final course grades and their interpretation are listed below:

Grade	Numerical Value	Grade Point Average	Interpretation of Academic Achievement
A	89.5-100	4.0	Excellent
B	79.5-89.49	3.0	Above Average
C	69.5-79.49	2.0	Satisfactory
D	69.49 or Below	0.0	Unacceptable

This grading scale is strictly adhered to. There are NO exceptions.

Exams: (3)                      37%                      (100pts each)

Final Exam (1)                      18.5%                      (150 points)

Labs: (6)                      7%                      (10 pts each)

Lab Worksheets (6)                      4%                      (5 pts each)

Project                      6.5%                      (55 pts)

Discussions: (7)	5%	(5 pts each)
Online HW: (9)	22%	(20 pts each)
<b>Total:</b>	<b>100%</b>	<b>(810 points)</b>

#### LABS:

Lab coat, Goggles, Gloves

#### 90/90 RULE:

Not applicable

#### EXTRA CREDIT:

Not applicable

#### My Parker Website

1. Discussion postings- the student will be expected to create one original discussion posting answering the question posed by the instructor. This must be posted no later than midnight on Sunday in that week. The student is expected to make at least 2 substantive responses to discussion postings by other students by Sunday at midnight. The discussions can be found on “week X” and clicking on “Forum Home”
2. Daily lecture vodcasts are provided for students to have additional tools to study. If there is a concept in class that went to fast for you it is encouraged to review the vodcast for the day at your own speed. Historically, students that re-reviewed the vodcasts were highly successful in the classroom
3. Weekly Assignments page- Each week you will find a page on the My Parker website. Each weekly page contains material for the weeks lecture. Lecture notes, handouts, lab materials, discussions link and an outline of lecture topics are found.
4. Wiki Project- Students are required to build a wiki page with their lab partner over a chosen topic by the professor. Each week there will be a project assignment, the schedule is found on My Parker under “Wiki Project” The wiki page should look professional and should be edited each week. I will grade your improvements and your adherence to the assignment each Sunday by midnight.
5. Lab Materials- This contains a safety video that will be viewed before your first lab session. In addition, the lab rubric and lab rules are also found. Lab reports are done as a lab group. Each student will label each section he/she was responsible for. Each student will be graded on his/her section as well as the lab report as a whole. Every student MUST participate in writing the lab report and the lab activity. At the end of the semester students will review their lab partner, which will be part of the final lab grade.
6. Lab Reports: The lab reports will be uploaded each week on the weekly myparker site. There will be a dedicated forum for you to upload the assignment.

#### Students:

We will be using Sapling Learning for our online homework.

## Sapling Learning - Online Organic Chemistry Practice Problems

The majority of organic problems involve structure drawing, and, depending on the question, stereochemistry or curved arrows must also be drawn. Some questions allow one to drag given structures/formulas to rank by a property (e.g., acidity) or sort into groups (e.g., alkene vs. alkyne). Nomenclature questions allow one to type in the name. There are also some multiple choice questions. Altogether, the online problems: 1) allow pretty much any question that is asked on paper to be performed on a computer; 2) enable one to draw their own structures, just as they will need to do on an exam; 3) grade instantly and provide feedback via tutor-like hints, allowing one to keep working with a question to arrive at the correct answer; 4) include detailed answer explanations.

1. Go to <http://saplinglearning.com>
2. a. If you already have a Sapling Learning account, log in, click "View Available Courses", then skip to step 3. b. If you have a Facebook account, you can use it to quickly create a SaplingLearning account. Click "create account" located under the username box, then click "Login with Facebook". The form will auto-fill with information from your Facebook account (you may need to log into Facebook in the popup window first). Choose a password and timezone, accept the site policy agreement, and click "Create my new account". You can then skip to step 3. c. Otherwise, click "create account" located under the username box. Supply the requested information and click "Create my new account". Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
3. Find your course in the list (listed by school, course, and instructor) and click the link.
4. Select your payment options and follow the remaining instructions.
  - Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.
  - During sign up - and throughout the term - if you have any technical problems or grading issues, send an email to [support@saplinglearning.com](mailto:support@saplinglearning.com) explaining the issue. The Sapling support team is almost always more able (and faster) to resolve issues than your instructor and TAs.

## COMMUNICATION WITH THE INSTRUCTOR:

The instructor will respond to E-mails posted through the course page within 24 hours during the week and within 48 hours on the weekend. In addition, notifications will also be posted on the My Parker website. If student needs additional help it is encouraged to come to my posted office hours.

A complete listing of all Academic policies is found on the MyParker Website/Academic Home Page/Common Policies:

Absences for Religious Holidays

Academic Dishonesty  
Academic Promotion,  
Probation and Dismissal Policy  
Appeals Assistance and Accommodations  
Attendance Policy  
Audio/Video Taping Cell Phones and Electronic Devices in Class  
Classroom Behavior  
Communications Computer Usage  
Examinations (Make up Exams/Lab Practical's)  
Altering Grades on Exams  
Exam Review  
Final Examinations  
Grading System  
Late Instructors to Lecture/Lab  
Missed Exam Policy  
Professional Decorum  
Special Needs Consideration  
Student Bereavement Policy  
Excused Absences

#### DISCLAIMER

The lecture outlines contained in the lecture booklet are NOT intended to represent the entire content of the course. A lecture outline is intended to be a guide to the lecture. The responsibility of the instructor is to follow the outline, expand the concepts and give explanation and illustrations to clarify content. The role of the student is to attend lecture and take notes over material presented by the lecturer that explains and illustrates the material listed in the outline. It is also the responsibility of the student to question the instructor if explanations and illustrations are not clearly presented or understood.

The instructors take no responsibility for the accuracy or completeness of old notes, quiz questions or exam questions that students may purchase, acquire from off of the internet or be given by previous students.

#### IMPORTANT NOTE:

The provisions contained in this syllabus do not constitute a binding contract between the student and the Parker University. These provisions may be changed at any time and for any reason at the discretion of the Course Director. When it is necessary to make changes to this document, appropriate notice (at least one week, if at all possible) will be given to the student(s).