Office Hours: Scheduled office hours will be determined during the 2nd week of classes to accommodate individuals or small groups and will be posted on CANVAS. If the scheduled times are not convenient, e-mail me with times that you are free so that we can set up an appointment. Open Door Policy: If the door is open, come on in!

Course meetings: Monday/Wednesday, 9:30-10:45 a.m., USFSM Room B206.

Prerequisites: CHM 2210 with a C or better.

Course Description: Lecture 3 cr. Continuation of Organic Chemistry I.

Course Topics: This course presents the fundamental concepts of structure, bonding, reactivity and mechanisms of organic chemistry.

Course Objective: The fundamental principles of chemistry will be applied to the study of organic functional groups by examining the correlation between structure and physical properties to predict chemical reactivity.

Student Learning Outcomes: By the end of this course, the student will be able to...

- Use the IUPAC rules of nomenclature to determine names and/or structures for molecules
- Explain bonding in organic molecules and its effects on molecular structure and reactivity.
- Relate the acidity and basicity of organic compounds to the mechanisms of chemical reactions.
- Correlate the effects of electronic, steric and orbital interactions to the behavior and properties of molecules.
- Perform stereochemical and conformational analyses of organic compounds and predict the effects of these properties on reactivity and reaction outcomes.
- Write reactions that show the preparation of molecules containing the functional groups: aromatics, alcohols and ethers, aldehydes, ketones, amines, carboxylic acids and carboxylic acid derivatives.
- Mechanistically illustrate reductions, oxidations, electrophilic and nucleophilic aromatic substitution, nucleophilic addition and substitution, and alpha carbon reactions.

Additionally, students will be able to demonstrate:

- Problem solving skills in classroom assignments.
- Effective oral and written communication skills as evidenced through peer instruction.
- Teamwork and interpersonal skills as displayed in small group projects.
- Ethical responsibility and an awareness of the role of chemistry in contemporary societal and global issues.
- Collaboration with class members to design and develop a method to communicate chemical concepts using various types of current technology methods.

Course Text/Materials: Required for successful completion of this course:

Canvas Use: The class syllabus is posted in Canvas, an online course management system. In this class Canvas will be used as a repository for documents and powerpoint slides pertinent to the course under the left tab: FILES. Information on how to use Canvas is available at: http://usfsm.edu/e-learning-services/student-resources/

Computer Laptop Use: Although USFSM requires all students to have laptops that can be brought to class, their use in class will be limited to designated class activities.

Evaluation: The course grade will be based upon four in-class exams, a comprehensive final exam, a series of quizzes/assignments, a group project, and laboratory reports. Grades will be based upon the following point system:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class Exams (3)</td>
<td>300 pts</td>
</tr>
<tr>
<td>Cumulative Final Exam</td>
<td>300 pts</td>
</tr>
<tr>
<td>Class Assignments</td>
<td>100 pts</td>
</tr>
<tr>
<td>Literature Assignment</td>
<td>100 pts</td>
</tr>
<tr>
<td>Group Project</td>
<td>100 pts</td>
</tr>
<tr>
<td></td>
<td>900 pts</td>
</tr>
</tbody>
</table>

Final letter grades for the course will be based upon the percentage of possible points earned as follows: A+=97-100%; A=93-96%; A-=90-92%; B+=87-89%; B=83-86%; B-=80-83%; C+=77-79%; C=73-76%; C-=70-72%; D+=67-69%; D=63-66%; D-=60-62%; F=<60%.

Exams: There will be three one-hour exams (a.k.a. Celebrations of Your Knowledge) during the semester and a two-hour cumulative final exam. Questions that appear on the exams will be integrated and composed from lecture material, assigned readings, and assignments and problems from the textbook.

Assignments: In-class assignments are an integral part of the collaborative class experience, thus class attendance is essential. Additional assignments will be given to be completed individually outside of class. Additionally, textbook problems for each chapter are recommended for self-assessment.

Literature Assignment: Familiarity with the scientific literature is paramount in becoming aware of the concepts and models utilized in the past to spark new ideas in this field of discovery. Dans les champs de l'observation le hasard ne favorise que les esprits préparés. Translation: In the fields of observation chance favors only the prepared mind. Louis Pasteur Lecture, University of Lille (7 December 1854)

Group Project: Small groups will be formed at the beginning of the course and each group will develop a project utilizing some form of current technology to communicate chemistry to a general audience. A variety of options will be suggested and creativity is encouraged. The overriding goal is to provide helpful information about organic chemistry in our lives.

Attendance: Attendance is expected for all scheduled classes, labs, and activities. A clear correlation between poor attendance and poor performance has been observed. When absences are unavoidable, the student is responsible for all material covered in class as well as for assignments, quizzes and examinations, and other activities listed in the syllabus that were missed. Notify the instructor in advance of any anticipated absences (excused or otherwise) so that arrangements can be made to take a quiz or exam before the scheduled date. If an in-class exam is missed, the final exam percentage will be counted for the missed exam.
Course Content – Classroom Portion: The following chapters of the text will be covered in this course. Scheduled dates and content covered are tentative and listed for general guidance. Examinations will be always held on the scheduled date.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Topic</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 17:</td>
<td>Intro and Conjugated Systems (cont. from Org. 1)</td>
<td>Jan. 5, 7</td>
</tr>
<tr>
<td>Chapter 18:</td>
<td>Aromatic Compounds</td>
<td>Jan 12, 14, 21</td>
</tr>
</tbody>
</table>

**Holiday: Martin Luther King Day, January 19, 2015**

| Chapter 19: | Aromatic Substitution Reactions           | Jan. 26, 28    |

**Celebration of Knowledge #1: Wednesday, Feb. 4, 2015**

| Chapter 13: | Alcohols and Phenols                      | Feb. 2, 9, 11   |
| Chapter 14: | Ethers and Epoxides                       | Feb. 16, 18    |
| Chapter 20: | Aldehydes and Ketones                     | Feb. 23, 25    |

**Spring Break: March 2-6, 2015**

**Celebration of Knowledge #2: Wednesday, Mar. 11, 2015**

| Chapter 21: | Carboxylic Acids and their Derivatives    | Mar. 9, 16, 18, 23 |

**March 21 2015 Last day to drop with a “W”**

| Chapter 22: | Alpha Carbon Chemistry                    | Mar. 25, 30 Apr. 1 |

**Celebration of Knowledge #3: Wednesday, Apr. 8, 2015**

| Chapter 23: | Amines                                    | Apr. 6, 13     |
| Chapter 24-26: | Biomolecules               | Apr. 15, 20,   |
| Last Day:    | Review and study tips                   | Apr. 22       |

**Final Celebration of your Knowledge: Wed. April 29, 2015 9:30 a.m.**

You will be responsible for all material covered in this course.
USFSM AND USF SYSTEM POLICIES

A. Academic Dishonesty: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the USFSM Catalog, the USF System Academic Integrity of Students, and the USF System Student Code of Conduct.

B. Academic Disruption: The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Catalog, USF System Academic Integrity of Students, and the USF System Student Code of Conduct.

C. Contingency Plans: In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Canvas, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Canvas site for each class for course specific communication, and the main USFSM and College websites, emails, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency. See the Campus Police Website for further information.

D. Disabilities Accommodation: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator, 941-359-4714, disabilityservices@sar.usf.edu, http://usfsm.edu/disability-services/

E. Fire Alarm Instructions: At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated. See Emergency Evacuation Procedures.

F. Religious Observances: USFSM recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes. Instructors canceling class for a religious observance should have this stated in the syllabus with an appropriate alternative assignment.

G. Sexual Misconduct/Sexual Harassment Reporting: USFSM is committed to providing an environment free from sex discrimination, including sexual harassment and sexual violence (USF System Policy 0-004). The Counseling and Wellness Center is a confidential resource where you can talk about incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. This confidential resource can help you without having to report your situation to either the Office of Student Rights and Responsibilities (OSSR) or the Office of Diversity, Inclusion, and Equal Opportunity (DIEO), unless you request that they make a report.
Please be aware that in compliance with Title IX and under the USF System Policy, educators must report incidents of sexual harassment and gender-based crimes including sexual assault, stalking, and domestic/relationship violence. If you disclose any of these situations in class, in papers, or to me personally, I am required to report it to OSSR or DIEO for investigation. The Deputy Coordinator for USFSM is Mary Beth Wallace, AVP for Student Enrollment, Engagement and Success, 941-359-4330 or marybeth@sar.usf.edu.

Campus Resources:
- Counseling Center and Wellness Center 941-487-4254
- Victim Advocate (24/7) 941-504-8599
- List of off-campus resources:
  - Hope of Manatee: 941-755-6805
  - Safe Place & Rape Crisis Center (SPARCC) – Sarasota: 941-365-1976
  - First Call for Help- Manatee: 941-708-6488
  - Sarasota & North Port 941-366-5025
  - Manatee Glens: 941-782-4800

**H. Web Portal Information:** Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and Canvas course information via that address.