CHEMISTRY 3 - ORGANIC POLYFUNCTIONAL COMPOUNDS
Summer 2015, M-F 9:00 AM - 12:00 PM at Braun Auditorium and the Gazebo
Dr. Vollmer-Snarr, 650-723-9518, hrvsnarr@stanford.edu, Office Hour: T 12:00 - 1:00 PM, 237 Mudd

TAs: Katherine Walker, kwalker7@stanford.edu, Office Hour: M 12:00 - 1:00 PM, 281 Mudd
Shyam Sathyamoorthi, ssathyam@stanford.edu, Office Hour: W 12:00 - 1:00 PM, 281 Mudd


General Course Description: This course is not intended to transmit facts to you. Instead, we focus on learning how to “think in organic chemistry,” and how to be an effective problem solver. This is the final course in the summer organic series and covers 7-8 chapters of material, dienes (16), aromatic compounds (17-18), amines (25), amino acids/proteins (29), carbohydrates (28), and lipids (30).

For you to do well in this course, you must actively participate in the group problem-solving sessions. You cannot sit passively and absorb information. You must be willing to put your ideas out for discussion—and some of those ideas will inevitably be wrong. That’s how real science gets done—necessarily imperfect ideas are discussed, argued, and refined to a better approximation.

**Read the sections associated with the next ~5 pages in your lecture note outline and complete all homework problems within those sections and at the end of each chapter. Preparation before class will greatly improve your chances of doing well in this class. Completion and Understanding of all of the assigned reading and problems are essential to your success in this class! You have also been assigned questions on the Smith Connect website, as well as LearnSmart reading. The schedule below is estimated and will change depending on the amount of material that we cover each day.

**Week 1**
Aug 3 16-Conjugation, Resonance, & Dienes
4 16-Dienes (cont.), 17-Benzene & Aromatic Compounds, Quiz 1, PS 1 & online HW due
5 17-Benzene, 18-Reactions of Aromatic Compounds Quiz 2, PS 2 & online HW due
6 Quiz 3, PS 3 & online HW due, Review by Shyam
7 Midterm Exam 1, 18-Reactions of Aromatic Compounds

**Week 2**
10 18-Reactions of Aromatic Compounds, 25-Amines
11 25-Amines, Quiz 4, PS 4 & online HW due
12 25-Amines, 29-Amino Acids & Proteins, Quiz 5, PS 5 & online HW due
13 Quiz 6, PS 6 & online HW due, Review by Katherine
14 Midterm Exam 2, 29-Amino Acids & Proteins

**Week 3**
17 29-Amino Acids & Proteins, 28-Carbohydrates
18 28-Carbohydrates, Quiz 7, PS 7 & online HW due
19 30- Lipids, Quiz 8, PS 8, online HW due
20 Quiz 9, PS 9, & online HW due, Review by Shyam & Katherine
21 FINAL EXAM

**Study your notes, problems in your text and online, problem sets, LearnSmart activities, and quizzes when preparing for your exams.**
Problem Sets (10 pts each) - Due every T, W, Th at 9:00 am in class (may have different due dates on final week); you will spend part of your class time working in groups to begin/complete problem sets.

Quizzes (10 pts each) - T, W, Th during the 1st 10 minutes of class; based on lecture material and problem sets from the previous day.

LearnSmart (optional) - LearnSmart reading assignments are given on a daily basis, but are recommended and not required.

Connect Online homework (5 pts each) - Due every T, W, Th at 8:30 am

Midterms (~95 pts each) - Friday, August 7 and 14, 2 hours, no makeups

Final Exam (~160 pts) - Friday, August 21, 3 hours, no makeups

Regrades: Quizzes, exams, and problem sets must be written in pen to be considered for a regrade. To submit a regrade request to the TA, you must include a paragraph explanation and staple it to the quiz, exam, or problem set. Regrade requests are due three days after graded work has been returned to you, and the entire work, not just the disputed portion, will be regraded by the TA.

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<thead>
<tr>
<th>Grades</th>
<th>Problem Sets/Quizzes</th>
<th>10 pts each</th>
<th>~180 pts</th>
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<tbody>
<tr>
<td>Online HW</td>
<td>5 pts each</td>
<td>~45 pts</td>
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<tr>
<td>Midterms</td>
<td>~95 pts each</td>
<td>~190 pts</td>
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<tr>
<td>Final</td>
<td>~160 pts</td>
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<tr>
<td>Total</td>
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<td>~625 pts</td>
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**Study groups, working through problems in Smith, flash cards, notes, and molecular models are highly recommended.

**The schedule and procedures in this course are subject to change.

Stanford Honor Code:
You are expected to uphold the university policy on academic integrity. When you take exams, you are not permitted to have anything outside of your backpack except for your pens or pencils. Scratch paper is provided.

Students with Disabilities:
Students who may need academic accommodation due to disability must initiate the request with the Student Disability Resource Center (SDRC) located within the Office of Accessible Education (OAE). SDRC staff will evaluate the request with required documentation, recommend reasonable accommodations, and prepare an accommodation letter for faculty dated in the current quarter in which the request is being made. Students should contact the SDRC as soon as possible because timely notice is needed to coordinate accommodations. The OAE is located at 563 Salvatierra Walk; their telephone number 650-723-1066.