UNIVERSITY OF OKLAHOMA
College of Arts and Sciences
Department of Chemistry & Biochemistry

SYLLABUS: CHEM 3153 Section 271 Organic Chemistry II Biological Emphasis, Summer 2014

COURSE:
CHEM 3153-271 M-F 10:00-11:45 AM, Gould Hall 155 June 30th 2014 - August 15th 2014

INSTRUCTOR INFORMATION:

<table>
<thead>
<tr>
<th>Professor:</th>
<th>Mr. Justin Garrett</th>
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<tr>
<td>Office:</td>
<td>Chemistry Building Annex 219</td>
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<tr>
<td>E-mail:</td>
<td><a href="mailto:Justin.Garrett-1@ou.edu">Justin.Garrett-1@ou.edu</a></td>
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<tr>
<td>Desire2Learn:</td>
<td><a href="http://www.learn.ou.edu/">www.learn.ou.edu/</a></td>
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<tr>
<td>Office Hours:</td>
<td>12:00-1:00pm M-F</td>
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<td>Action Center:</td>
<td>TBA</td>
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TEXTBOOK AND OTHER MATERIALS:
White cover with test tubes

Other Materials: Access to web-posted material is necessary (www.learn.ou.edu)
Molecular model kits are helpful

COURSE GOALS: The aim of this course is to introduce you to advanced concepts in organic chemistry. The focus will be on new organic reactions, mechanisms, and multistep synthetic sequences. Examples of medical and biological significance will be discussed, and other topics from the primary literature will be presented. We will cover in order chapters 17-26 in D. Klein’s Organic Chemistry textbook. Note that this course is an intensive coverage of the material and it is expected to be a full time endeavor, therefore attendance is strongly encouraged!

COURSE SCHEDULE: See attached sheet for planned lecture and exam schedule. The exams are scheduled for Gould Hall 155 (Exam 1: July 15th, Exam 2: July 30th, and Final Exam: August 15th) Please note the university-scheduled final exam date.

LECTURES: Lectures will begin promptly at 10:00am. Lectures will be written “live”, students are strongly encouraged to take notes.
**ASSIGNED TEXT PROBLEMS:** The instructor will include assigned text problems along with each lecture. You are responsible for working all of the assigned problems and checking their accuracy using the study guide/solutions manual. If the student has any questions remaining after checking the solutions manual should be discussed with the instructor. **The instructor will NOT grade these problems.** Although the problems will not be graded, some problems may show up on a quiz or exam.

**ACTION CENTER PROBLEMS/PROBLEM SESSIONS:** In addition to the assigned chapter problems, you will be given opportunity to work D2L-posted problems in groups during action center meetings from **TBA.** These sessions are not strictly required and are **not graded** but attendance is strongly encouraged as this provides an excellent opportunity to learn the material.

**QUIZZES:** Check the calendar for scheduled quizzes. One quiz grade is dropped to account for any unforeseen circumstances, including emergencies and illness, therefore there will be **NO make up quizzes.**

**EXAMS:** You will be responsible for all material covered: in class, problem sessions, and in the assigned chapters of the book unless specifically told by the instructor that the material will not be on the exam. Due to the amount of material, some required material may not be covered in lecture or even included in the lecture notes, you will be responsible for learning that material from the text and assigned problems. The mid-term exams will consist of multiple choice-type questions, some short response questions and some longer response questions. **Requests for re-grading exams will be accepted for within one day of the return day of the exam.** If you wish your exam to be re-graded, turn it into the instructor who will re-check the entire exam. Extra explanations will NOT be accepted—it is up to you during the exam period to state clearly what you mean, not in an addendum to the exam. It is only fair to grade what you originally wrote. If you wish to have the grading of a particular problem explained but not changed, this can be done during office hours. Addition and recording errors unfortunately occur and will be corrected without re-grading the exam (but only within the one day of returning the exam). There will be **NO make up exams.**

**GRADES:** Grades will be determined by your results on the exams and quizzes

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<th>COURSE GRADE</th>
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<tr>
<td>Quizzes</td>
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<td>Semester Exams</td>
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<td>Final Exam</td>
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The final letter grading for the lecture course will be as follows: A ≥ 90%, B = 89-80%, C = 79-70%, D = 69-60%, F = <60%.

**The Final exam must** be taken or a course grade **F** will be assigned. The exam is scheduled by the University for Friday August 15th 10:00am-11:45am. The exam will have the same format as the regular semester exams and will be comprehensive for Organic 2 material. Please plan your travels schedules accordingly.
**Note:** No accommodation will be made for non-excused absences. For excusable absences you must provide me with timely documentation (contact me before the exam) and see me to make individual accommodations.

**EMAIL:** Students have the responsibility to read and respond to any email messages sent during the week by the instructor to their OU email account within 24 hours. Messages will only be sent to OU accounts. The instructor will attempt to respond to email with specific questions by the following weekday. Do not expect responses to emails over the weekends. Since organic chemistry is such a visual subject, most problems are much better dealt with in person; email should not be used as a substitute for visiting office hours.

**DISRUPTIVE BEHAVIOR:** Any student engaging in disruptive behavior deemed by the instructor to be disruptive or distracting will be asked to leave the classroom for the remainder of the lecture or exam. Disruptive behavior includes, but is not limited to: receiving phone calls, texting, or taking pictures during class. Please turn off your cell phones before entering the class or exam and put them out of site.

**Modification of the Syllabus:** Though the main points of this syllabus are unlikely to change, the instructor reserves the right to modify by addition and/or subtraction and/or all materials contained in this syllabus. This includes, but not limited to, course content, assignments, due dates, and portion(s) of the grade assigned to individual items within the course.

**Accommodations:** Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities. Students with disabilities must be registered with the Disability Resource Center prior to receiving accommodations for this course. The Disability Resource Center is located in Goddard Health Center, Suite 166. Phone (405) 325-3852 or TDD: (405) 325-4173. For more information please see the Disability Resource Center website [http://www.drc.ou.edu](http://www.drc.ou.edu).

**Academic Integrity and Honesty:** All students are expected to conform to college-level standards of ethics, academic integrity, and academic honesty. By enrolling in this course, you agree to be bound by the Academic Misconduct Code published in The University of Oklahoma Student Code ([www.ou.edu/studentcode/OUStudentCode.pdf](http://www.ou.edu/studentcode/OUStudentCode.pdf)). For further clarification please see: [www.ou.edu/provost/integrity-rights/](http://www.ou.edu/provost/integrity-rights/).

All members of the community recognize the necessity of being honest with themselves and with others. Cheating in class, plagiarizing, lying and employing other modes of deceit diminish the integrity of the educational experience. None of these should be used as a strategy to obtain a false sense of success. The need for honest relations among all members of the community is essential.
Topics (corresponding chapters in D. Klein’s Organic Chemistry)

**Unit 1**

17. Conjugated pi-systems and addition reactions
18. Benzene and Aromatic Compounds
19. Aromatic Substitutions
**Exam 1** combining O-Che 1 review and emphasizing Chapters 17-19

**Unit 2**

20. Aldehydes and Ketones
21. Carboxylic Acids, Esters and derivatives
22. Enols and Enolates
**Exam 2** emphasizing Chapters 20-22

**Unit 3**

23. Amines
24. Carbohydrates
25. Amino Acids, Peptides, and Proteins
26. Lipids
**Final Exam** – Cumulative Chapters 17-26
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**Syllabus**

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