Course Syllabus

Course Name: Honors Organic Chemistry I

Instructor: **Prof. Jennifer Heemstra**
Office Hours: Wednesday 2-4 pm or by appointment (1320B N-HEB)
E-mail heemstra@chem.utah.edu

Teaching Asst: **TBA**
Office Hours: TBA
E-mail: TBA

Admin Asst: **Ms. Katie Shelton**
1320 N-HEB
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Lectures
Time and Location: MWF 8:35–9:25 am in ST 205

Discussions
Time and Location: TuTh 8:35–9:25 am in ST 205
Discussion will be a time when you can review homework assignments and ask any questions you have regarding the course material. Attendance at discussion is not mandatory, but is highly encouraged. Discussion will begin Aug 23.

Textbooks

Title: Organic Chemistry
Author: Smith, Janice Gorzynski
Publisher: McGraw-Hill
Edition/Year: 3rd Edition, 2011
ISBN: 9780073375625
Additional information: On reserve in the library
Type: Required resource
I DO NOT recommend purchasing the study guide

Title: Organic Chemistry I as a Second Language
Author: Klein, D. R.
Publisher: John Wiley & Sons
Edition/Year: 3rd Edition, 2011
ISBN: 9781118010402
Additional information: On reserve in the library
Type: Required resource

Required Equipment
Turning Point clicker

Highly Recommended
Molecular modeling set (I specifically recommend the Prentice Hall version)

Course Coverage
J. Smith Organic Chemistry Chapters 1-15. Skeleton lecture notes will be posted on the website. Print them out and bring them to the lecture to complete the notes. Filled notes and problem solutions we work in class WILL NOT be available online or from me.

Canvas
All information, announcements, materials, etc. will be available on Canvas. Please check the course page frequently.

Homework
Problem sets will be assigned from Smith and/or Klein and reviewed during Tuesday discussion section. Assignments will be posted to Canvas one week in advance.

Quizzes
Quizzes will be given at the beginning of Thursday discussion section. Each quiz is worth 10 points, and your 5 highest quiz scores will be used for the quiz component of your final grade.

Clicker Points
During each lecture, a few multiple choice questions will be presented to the class. Each student is expected to consider the question and then choose one of the possible answers using a Turning Point "clicker". A total of 4 "clicker points" will be awarded for a correct answer. A total of 3 "clicker points" will be awarded for an incorrect answer. A total of zero points will be awarded if no answer at all is entered. Therefore, it is in your best interest to try to answer each question correctly, but enter something (your best guess) regardless. At the end of the semester, those students who

have accumulated ≥85% of the total clicker points will get the maximum points (50) added to their overall score at the end of the semester. Those falling below the 85% threshold will receive a proportional amount of the 50 points. The clicker questions will be posted to Canvas at the end of each week.

Exam Schedule
Please bring a picture ID to the exam. There will be two in-class midterm exams and a comprehensive final exam. The dates for the exams are listed in the schedule below. The examination questions will be very similar to the assigned homework problems; they will involve short answer descriptions and fill-in-the-blank problem solving.

Grading Policies
Quizzes (50 points) + Clicker (50 points) + Exams (3 x 200 points) = 700 total possible points

Final Grades
The final grades will be assigned approximately as follows (all %'s will be rounded, i.e. 69.4%=69%, 84.5%=85%):
≥87%: A
≥80%: A-
≥65%: B-/B/B+
≥50%: C-/C/C+
I reserve the right to vary these cut-offs depending on the class performance**.** It is my policy to not penalize you for attempting an honors course. This means that a level of demonstrated knowledge and effort which would earn you an A in Chem 2310 will also earn you an A in this course.

Makeup policy
There will be no makeup examinations, makeup quizzes, or makeup clicker points for this class. Exceptions to this policy must be cleared in advance (only valid University related absences) and/or must be due to certifiable emergencies.

Regrade Policy
Legitimate questions concerning the grading of an exam can be made up to 1 week after the exam has been handed back. In order to have the exam regraded, a separate sheet of paper justifying the reason for the regrade must be attached to the original exam. Statements like: "regrade number 5" will not be accepted. Do not write on the exam! No regrade requests where the examination itself has been modified in any way will be accepted.

Extra Credit
The ability to read and critically analyze scientific literature is an important and empowering skill to have regardless of your future career plans. As an optional extra credit assignment, you should find one journal article from the primary scientific literature (feel free to email me if you are unsure whether a journal counts as scientific literature) that is somehow related to the field of Organic Chemistry, and write a blog entry that explains why you became interested in the article, tells how you went about reading/analyzing the article, summarizes the results of the article, and critiques the methods and conclusions of the article. You may work in groups of 1-3, but the word count of your blog entry must be at least 1000 words x # of people in group. The extra credit assignment will be awarded points on the scale of: 7 (poor), 15 (fair), 23 (good), 30 (excellent). If you work in a group, everyone in the group will receive the same number of points. Blogs must be posted to the course blog site (URL TBA) by 8:35 am on Friday Dec 7. For examples, see http://boundlessthicket.blogspot.com/2012_05_01_archive.html.

Last day to withdraw: Friday, October 19

Student Code
By submitting an assignment, you are representing that it is your own work and that you have followed the rules associated with the assignment. Incidents of academic misconduct (including cheating, plagiarizing, research misconduct, misrepresenting one's work, and/or inappropriately collaborating on an assignment) will be dealt with severely, in accordance with the Student Code (http://www.regulations.utah.edu/academics/6-400.html). A single instance of academic misconduct may result in a failing grade for the course. Multiple instances of academic misconduct may result in probation, suspension or dismissal from a program, suspension or dismissal from the University, or revocation of a degree or certificate.

Date		Lecture	Chapter
Aug 20	M	1	Introduction/1-Structure and Bonding
Aug 22	W	2	1-Structure and Bonding
Aug 24	F	3	2-Acids and Bases
Aug 27	M	4	3-Functional Groups
Aug 29	W	5	4-Alkanes
Aug 31	F	6	4-Alkanes
Sept 3	M	Labor Day	
Sept 5	W	7	5-Stereochemistry
Sept 7	F	8	5-Stereochemistry
Sept 10	M	9	6-Intro to Organic Reactions
Sept 12	W	10	7-Nucleophilic Substitution
Sept 14	F	11	7-Nucleophilic Substitution
Sept 17	M	12	7-Nucleophilic Substitution
Sept 19	W	13	7-Nucleophilic Substitution
Sept 21	F	14	8-Elimination Reactions
Sept 24	M	15	8-Elimination Reactions
Sept 27	W	16	8-Elimination Reactions
Sept 29	F	17	8-Elimination Reactions
Oct 1	M	**Exam 1**	**Ch 1-8**
Oct 3	W	18	9-Alcohols, Ethers, and Epoxides
Oct 5	F	19	9-Alcohols, Ethers, and Epoxides
Oct 8	M	Fall Break	
Oct 10	W		
Oct 12	F		
Oct 15	M	20	9-Alcohols, Ethers, and Epoxides
Oct 17	W	21	9-Alcohols, Ethers, and Epoxides
Oct 19	F	22	10-Alkenes
Oct 22	M	23	10-Alkenes
Oct 24	W	24	10-Alkenes
Oct 26	F	25	10-Alkenes
Oct 29	M	26	11-Alkynes
Oct 31	W	27	11-Alkynes
Nov 2	F	28	12-Oxidation and Reduction
Nov 5	M	29	12-Oxidation and Reduction
Nov 7	W	30	12-Oxidation and Reduction
Nov 9	F	31	12-Oxidation and Reduction
Nov 12	M	**Exam 2**	**Ch 9-12**
Nov 14	W	32	15-Radical Reactions
Nov 16	F	33	15-Radical Reactions
Nov 19	M	34	15-Radical Reactions
Nov 21	W	35	13-Mass Spec and IR
Nov 23	F	Thanksgiving	
Nov 26	M	36	13-Mass Spec and IR
Nov 28	W	37	14-NMR
Nov 30	F	38	14-NMR
Dec 3	M	39	14-NMR
Dec 5	W	40	Multistep Synthesis/Retrosynthesis
Dec 7	F	41	Multistep Synthesis/Retrosynthesis, **EC due**
Dec 10	**Mon, 8-10 am**	**Final Exam**	**Ch 1-15**

*all dates tentative except for exams