Oregon State University

# **Sample Course Syllabus**

### **Online CH 331 Organic Chemistry I**

Note to prospective students: This syllabus is intended to provide students who are considering taking this course an idea of what they will be learning. A more detailed syllabus will be available on the course Blackboard site for enrolled students and may be more current than this sample syllabus.

## **BEFORE ENROLLING – PLEASE READ THIS WEBSITE**

http://chemistry.oregonstate.edu/courses/ch331-7/ch331-7W/online-organic-chemistry-info.html

Dr. Jeffrey Walker Instructor Jeffrey.Walker@oregonstate.edu or 541.737.6762 Contact

Prerequisites CH 121, CH 122, CH 123 or CH 221, CH 222, CH 223 or one year of college general chemistry

Prerequisite overrides The chemistry department asks that all prospective students, both degree-seeking and non-degree seeking students, provide documentation verifying completion of the course prerequisites. Instructions for submitting documentation are found at http://www.chemistry.oregonstate.edu/courses/ch331-7/ch331-7W/online-organic-chemistry-info.html.

#### **Textbook and Related Items**

Sixth edition of Organic Chemistry by P.Y. Bruice (Required) Sixth edition of Organic Chemistry: Study Guide and Solutions Manual by P.Y. Bruice (Required) A molecular model set (Required) If you purchase course materials from sources other than the OSU Bookstore please be careful to obtain the correct ISBN.

will

course

#### Services for Students with Disabilities

Accommodations are collaborative efforts between students, faculty and Disability Access Services (DAS). Students with accommodations approved through DAS are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through DAS should contact DAS immediately at 541-737-4098.

#### Grading

Quizzes Quizzes (best 3 of 4), 60 pts (30 %) Students Midterm Examination\*, 60 pts (30 %) take four online Final Examination \*, 80 pts (40 %) quizzes through TOTAL, 200 pts the Blackboard site. **Examinations** 

Students will take a midterm examination (in week 6) and a comprehensive final examination (in week 11) both under the supervision of an approved proctor. Proctoring guidelines and registration for proctored examinations are available online through the Ecampus testing and proctoring website. It is important to submit your proctoring request as early as possible to avoid delays.

Cut-offs for course grades: A, 175 pts (87.5%); A-, 169 pts (84.5%); B+, 163 pts (81.5%); B, 157 pts (78.5%); B-, 151 pts (75.5%); C+, 145 pts (72.5%); C, 139 pts (69.5%); C-, 133 pts (66.5%); D+, 127 pts (63.5%); D, 121 pts (60.5%); D-, 115 pts (57.5%) \*If the % grade of your final examination is higher than the % grade of your midterm examination then your final examination % grade will be used to replace your midterm examination grade (as a %)

#### **Tentative Schedule of Topics**

Review of Lewis structures; hybridization; bonding; acid/base chemistry, stereochemistry
Alkanes: nomenclature and physical properties of alkanes and cycloalkanes; conformational analysis of acyclic alkanes and cycloalkanes; halogenation of alkanes and cycloalkanes
Alkenes I: structure, nomenclature and physical properties of alkenes; addition of hydrogen halides to alkenes; carbocation rearrangements; addition of water to alkenes; addition of alcohols to alkenes
Alkenes II: addition of halogens to alkenes (conversion to vicinal dihalides, halohydrins, and related compounds)
Alkenes III; redox reactions in organic chemistry; hydrogenation of alkenes; hydroxylation of alkenes; hydroboration- oxidation of alkenes; oxidative cleavage of alkenes
Alkyl Halides I: structure, nomenclature and physical properties of alkyl halides; the $S_N1$ reaction; factors affecting the rate of an $S_N1$ reaction; the $S_N2$ reaction; factors affecting the rate of an $S_N2$ reaction
Alkyl Halides II: structure, nomenclature and physical properties of alkyl halides; the E1 reaction; the E2 reaction Alkynes: structure, nomenclature and physical properties of alkynes; addition of hydrogen halides; addition of water; addition of halogens; addition of hydrogen; acetylide ions

Plagiarism You are expected to submit your own work in all your assignments, postings to the discussion board, and other communications, and to clearly give credit to the work of others when you use it. Academic dishonesty will result in a grade of "F." Link to Statement of Expectations for Student Conduct: http://oregonstate.edu/studentconduct/regulations/index.php#acdis.

Course evaluation We encourage you to engage in the course evaluation process each term - online, of course. The evaluation form will be available toward the end of each term, and you will be sent instructions by Ecampus, You will login to "Student Online Services" to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.

This course is offered through Oregon State University Extended Campus. For more information, contact: Web: ecampus.oregonstate.edu Email: ecampus@oregonstate.edu Tel: 800-667-1465