CAMPBELLSVILLE UNIVERSITY

COURSE SYLLABUS

PLEASE TYPE. DATE September 2, 2011

ACADEMIC UNIT Natural Sciences FACULTY Mullins

Discipline	Course# Section	Title of Course	Credit Hours	Cross Reference (if applicable)
CHE	341	Organic Chemistry 1	3.0	

TEXTBOOK Required Not Required

Author Janice Smith Title Organic Chemistry

Publisher McGraw-Hill Date of Publication 2011 (3rd edition)

WORKBOOK

Author n/a Title

Publisher Date of Publication

PLEASE ANSWER THE FOLLOWING QUESTIONS ON A SEPARATE SHEET OF PAPER AND ATTACH TO THIS FORM.

1. DESCRIPTION OF COURSE: Develop a brief description of the course as it will appear in the Catalog.

2. STUDENT LEARNING OBJECTIVES: List the student learning objectives for the course. Please relate these objectives to the mission and goals of the University and the Academic Unit. For general education courses, please indicate which student learning objectives address general education goals and the intended method of assessment. A minimum of four of the seven general education goals must be included.

   Example: Students will demonstrate their ability to compare and contrast two types of basket weaving. (Goal: Oral and Written Communication; Evidence: research paper and class presentation)

3. COURSE OUTLINE: Outline the topics/units that are to be taught.

4. EVALUATION: How do you plan to determine the grade in the course? Please include grading scale.

5. REQUIREMENTS:
   a. Examinations: State when tests are to be administered, including unit, mid-term, and final examinations.
   b. Reports: How many, length required, and what type (Oral, term and/or research, book critiques).
   c. Supplemental reading assignments or outside work required.
   d. Supplemental instruction aids: Audio visual aids, field trips, guest speakers, etc.

6. BOOKLIST

DEAN Date Copy Received

VICE PRESIDENT FOR ACADEMIC AFFAIRS Date Copy Received

CHE 341 Organic Chemistry I | **Fall 2011**
Meeting Times: MWF, 1-1:50 pm **in SB 104** | 3 credit hours
INSTRUCTOR: Dr. Chris Mullins | **OFFICE: Room 318 Carter Hall**
Phone: 270-789-5041 | **Office hours:** As posted or by appointment
E-mail address: csmullins@campbellsville.edu | **Web:** www.campbellsville.edu/csmullins

Relevant Quotes:
"Satisfaction of one's curiosity is one of the greatest sources of happiness in life."

-Linus Pauling

20th century chemist and the only person to have been awarded two unshared Nobel Prizes - the 1954 Nobel Prize in Chemistry and the 1962 Nobel Peace Prize.

"Science is facts; just as houses are made of stones, so is science made of facts; but a pile of stones is not a house and a collection of facts is not necessarily science."

-Henri Poincare

French mathematician & physicist (1854 - 1912)

Section 1: Course Description

CHE 341 is a beginning course for the student who has no previous background in organic chemistry. Some of the fundamental types of aliphatic organic compounds are treated with regard to theory and application. Pre requisites: CHE 112, CHE 114. Concurrent enrollment with CHE 343.

Section 2: Course Objectives

By the end of the course, students who have successfully completed CHE 341 will

1. be able to effectively define, identify and illustrate various functional groups.
2. demonstrate the ability to name and draw structures of chemical compounds possessing those functional groups.
3. be able to relate pertinent thermodynamic and kinetic features associated with conformational analysis and chemical reactions.
4. be able to define, illustrate, and utilize basic bonding principles and MO theory to discuss the chemical properties exhibited by molecules.
5. demonstrate the ability to illustrate and discuss resonance and resonance structures.
6. be able to draw, identify and illustrate chiral compounds, stereochemical terminology and principles.
7. demonstrate the ability to interpret data from IR, NMR, UV-Visible and mass spectrometry.
8. present scientific data clearly and effectively through both written and verbal communication.

Section 3: Course Outline

See course schedule, includes *tentative* exam dates.

Section 4: Examinations and Grading

The course grade is based on the items listed below. A portion of points missed on the hourly exams may be "regained" on the final exam. (See resurrection policy). **There will be no curving of grades in this course.** It is possible for all students to receive an A, however, it is also possible for no student to receive an A grade. The grading scale may be eased at the discretion of the instructor, but percentages needed for each letter grade will NOT be higher than those listed in the syllabus. You are only in competition with yourself for a grade, not with other students.

Exams (5 @ 100 pts)	500 pts
Final Exam (comprehensive)	150 pts
Homework	100 pts
Quizzes	100 pts
Group Investigative Project/Presentations	150 pts
TOTAL	**1000 pts**
If, for any reason, you cannot continue to attend this class, be certain that you DROP IT OFFICIALLY. Otherwise you will automatically receive a failing grade.	

The grading scale *will not be higher* than:

850+ points	A
750-849 points	B
650-479 points	C
550-649 points	D
Below 550 points	F

Section 5: Requirements

A. *Attendance:* The University Undergraduate Student Attendance Policy will be strictly followed for this course. Arrival at class five (5) minutes after the class has begun or sleeping in class will be counted as an absence.

B. *Examinations:* Five exams (100 points each) will be given throughout the semester, with definite dates being announced in class approximately a week in advance. A COMPREHENSIVE two-hour final exam will be given at the end of the semester according to the exam schedule furnished by the Academic Dean's office. **Make-up exams will be permitted at the discretion of the instructor and ONLY with a reasonable and well-documented excuse (ie. Emergency hospital visit, death of a member of the immediate family, university-sanctioned athletics event).** The final exam will have a base value of 150 points, however, if a student does poorly on an hourly exam they may elect to replace ***ONLY ONE*** score by having the final examination count for 250 points of their grade. In order to do so, a student must fill out a form (provided by the instructor) and submit it by 9am on Monday of final exam week.

If a student misses the final exam they will receive a grade of "X" per University policy and will need to provide documentation for the absence to receive an opportunity to make up the final. Please refer to the Student Handbook for the University policy. Cases of prolonged absence, severe illness, or death in the immediate family will be handled on an individual basis.

C. *Homework:*

A) **(Graded) Online Homework:** Each student will be required to complete online homework using the Sapling Learning system. Details about accessing these systems will be provided no later than the first day of class.
For these assignments, students will be given an unlimited number of opportunities to determine and submit correct responses to each question. A certain level of mastery (80%) will be needed for the homework to be counted as complete. Any homework not completed by the assigned due date will earn a grade of zero.

(Ungraded) Traditional Pencil and Paper Homework: In addition to the Sapling assignments, problems from the book will be assigned, but they will neither be collected nor graded. Answers to homework problems are available in the Study Guide and Solutions Manual.

***Even though I will not be collecting or grading the traditional homework, you are strongly encouraged to do as many of these as possible. Problems from the textbook also have an uncanny way of making their way onto the exams. Also, many types of problems that may appear on exams will not be found in Sapling, so you will need to do the textbook problems in addition to the Sapling problems.*

D. *Quizzes and Bell-Ringers:* Throughout the semester, there will be periodic quizzes and opening activities will be administered either during class (usually at the beginning of the session) *or* online to stimulate learning and to probe for how well you are incorporating the concepts. *Therefore you will want to be sure to always make it to class on-time!* Missed activities, without an excused absence (see below) will be recorded as a zero.

It is my goal as the instructor to involve each of you as an active and engaged participant in the course. Therefore, I hope to minimize time spent lecturing and maximize time spent in classroom activities (ie. Active learning). *Thus, each student will be expected to spend a fair amount of time outside of class to read and prepare themselves to actively engage in the classroom discussions.* Quizzes and participation will constitute 100 points, or 10% of the class grade.

E. *Group Investigative Project/Presentations:* Small student teams will be assembled by the instructor early in the semester. Each team member will be responsible for contributing to a group presentation that utilizes the course content to compare and contrast a set of organic molecules. Presentations will be made during the last week of the term in front of the class, other students and faculty may also be invited. Details regarding the makeup of this project will be provided by the instructor in the first week of class.

F. *Teaching Methods:* Students will be taught concepts, applications and problem-solving techniques through lecture, demonstrations, class discussion and actual problem solving. Resources such as the current syllabus, schedule alterations, exam answer keys, and links will be posted to the course TigerNet page on a regular basis.

G. *Academic Integrity:* Any student caught cheating on an examination or altering a test for re-grade will receive an automatic "F" in the course. Be aware that aggressive methods are used to protect the majority of you who are honest. Other violations of this code of conduct include, but are not limited to, copying someone else's work and representing it as your own, discussing the content or degree of difficulty of quizzes or exams with anyone before the entire class has completed the requirement, collaborating on assignments which are of an individual nature, plagiarism of primary or secondary sources of information, and not reporting violations of this implied code of conduct. Violations will be dealt with according to the Division of Natural Sciences and University policies.

**** To ensure that you appreciate and understand the subject matter of this syllabus and the need for ethical conduct, each student will be required to sign and turn in the attached acknowledgement statement no later than Friday, September 2, 2011.***

Section 6: Required Materials

1. *Organic Chemistry*, Janice Gorzynski Smith., McGraw-Hill
   ISBN-13: 978-0077354725 (3rd edition)
   978-0073327495 (2nd edition)
2. Access to Sapling Learning course online homework (purchased separately online, see TigerNet course page for detailed PDF file).

***Highly Recommended:**

3. *The Nuts and Bolts of Organic Chemistry: A Student's Guide to Success*, Joel Karty. Pearson, 2005, ISBN-13: 9780805331172
4. Molecular Model Kit (typically, you will be permitted to use during quizzes and exams, also will be used for CHE 343 lab)

Section 7: Disabilities

Campbellsville University is committed to reasonable accommodations for students who have documented physical and learning disabilities, as well as medical and emotional conditions. If you have a documented disability or condition of this nature, you may be eligible for disability services. Documentation must be from a licensed professional and current in terms of assessment. Please contact the Coordinator of Disability Services at 270-789-5192 to inquire about services.

Section 8: Miscellaneous

Guests are only allowed in class at the discretion of and with prior approval from the instructor. Electronic recording devices of any kind are prohibited except in special circumstances and with the specific permission of the instructor. **Pagers, cell phones, and similar items are disruptive to the entire class and must be turned off during class. The owner of any such device that activates during class will be immediately excused from class and counted as absent for the entire period.**

Section 9. Emergency Contact Information

Campbellsville University Security Phone:	270-403-3611 (Cell) 270-789-5555 (Office)
Natural Science Division Office:	270-789-5065