COURSE: Organic Chemistry II (CHEM 2020)
SEMESTER: Spring 2012
INSTRUCTOR: Dr. Lawrence F. Kennard, Room 124 NSCI; 585-6878
E-Mail: Lawrence.Kennard@ws.edu

Course Contact: Dr. Jeff T. Horner, Dean of Natural Science, Office NSCI 126,
Supervisor: Phone: 423-585-6954, E-Mail: Jeff.Horner@ws.edu
Office Hours: Instructor’s Office Hours are posted on his office door.
FAX: 423-318-2762
Secretary: 423-585-6865 (Sherry Woody)

REQUIRED TEXTBOOK
Organic Chemistry by Solomons and Fryhle, 10th edition, Wiley

CATALOG DESCRIPTION
An introductory sequence course in organic chemistry which considers the occurrences, structure, properties, and uses of the more important classes of organic compounds. Concepts such as mechanisms of reactions and the relationships between structure and properties are developed. Topics covered are: aromatic compounds, electrophilic aromatic substitution, oxidation and reduction reactions, organometallic compounds, aldehydes, and ketones, carboxylic acids and their derivatives, amines, and synthesis and reactions of β-dicarbonyl compounds. Prerequisite: CHEM 2010 - 3 Semester credits.

COURSE OBJECTIVES AND COMPETENCIES
In this course students will acquire and demonstrate the competencies needed for advanced studies in chemistry, biochemistry and related disciplines or to obtain industrial positions as laboratory technicians. Students will master skills in interpreting graphic and tabular data, in using models to explain chemical phenomena, in working with qualitative, quantitative and spectral data. Students will also understand the benefits derived from the use of organic chemistry, chemical engineering and chemical technology to enhance the quality of life on our planet and the importance of balancing our needs with our environment.

COURSE TOPICS
1. Aromatic Compounds
2. Spectroscopic Methods of Structure Determination
3. Electrophilic Aromatic Substitution
4. Aldehydes and Ketones I. Nucleophilic Additions to the Carbonyl Group
5. Aldehydes and Ketones II. Aldol Reactions
6. Carboxylic Acids and Their Derivatives. Nucleophilic Substitution at the Acyl Carbon
7. Amines
9. Amino Acids and Protein
10. Nucleic Acids and Protein Synthesis

METHODS OF INSTRUCTION
1. Lectures
2. Class participation and discussion
3. Problem Sets and Past Exams
**EVALUATION**

1. Hour Exams (3) 60%
2. Final Exam 40%

Grades will be determined by the student’s percentile rank as follows:

- **A** = 90-100
- **B** = 80-89
- **C** = 70-79
- **D** = 60-69
- **F** = 0-59

**Course Ground Rules:**

Students should attend the first day of class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class.

Plagiarism, cheating, and other forms of academic dishonesty are prohibited.

Students with disabilities must register with Student Support Services (CCEN), Room 262 (phone 423-585-6892) if they need any special facilities, services, or consideration.

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located in the College Center (CCEN), Room 261. The phone number is 423-585-6920.

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Admissions and Records Office will not be allowed to remain in class or receive credit for this course.

Cellular phones and other electrical devices (ipods, headphones, etc.) use during classroom interaction is prohibited. Cellular phones must be turned to the non-audible mode until after class, at which time calls can be received or checked. (See the Walters State Catalog/Handbook)

For information related to the cancellation of classes due to inclement weather, please check the college’s Web site at [www.ws.edu](http://www.ws.edu) or call the college’s student information line, 1-800-225-4770, option 1; InfoConnect, (423) 581-1233, option 104; the Sevier County Campus, (865) 774-5800, option 9; or the Greeneville/Greene County Center for Higher Education, (423) 798-7940, option 4. Also, please monitor local TV and radio stations for weather-related announcements.

For additional information on this policy see the college catalog.

In the event of a pandemic or other college declared critical event that impacts the college’s ability to proceed with academic course activities as planned, the college reserves the right to alter this course plan. In the event of a pandemic or other event, please refer to the college’s home web page, [www.ws.edu](http://www.ws.edu) or call InfoConnect, (423) 581-1233 for further information.

Regular class attendance is a student’s obligation. (See the Walters State Catalog/Student Handbook) If for some reason a student misses class, it is his or her responsibility to see the
instructor regarding missed assignments and/or activities and to be prepared for the next class. Excessive absences may substantially lower the semester grade. The college requires the instructor to keep accurate records and to report when students are not attending class.

Students are required to supply a #2 pencil for each lecture exam.

The wearing of hats and caps in class is not allowed! Students will be asked to remove their hats and caps.

**STAY AWAKE IN CLASS.** Your mere presence in class is not sufficient—you must be able to actively process the information presented! Sleeping in class is disruptive in two ways: the student who is snoozing is not interested and not participating in the classroom discussion; secondly, sleeping in class is considered to be disrespectful to the teacher and other students. The penalty for sleeping in class may range from the student being requested to leave the class with a following conference with the instructor, to notification of the Vice-President of Academic Affairs (in the cases of habitual sleepers). If you have a medical condition that prevents you from staying awake in class, please discuss this with the instructor.

**WSCC Catalog Notification Statement:**
All students attending Walters State Community College, regardless of the time and location of the class, must abide by the rules and regulations outlined in the current *Walters State Catalog/Student Handbook* and the current “Walters State Timetable of Classes.” A copy of the Catalog/Handbook and the “Timetable of Classes” may be obtained from the Admissions Office on the Main campus or at any of our off-campus sites. You may also access the Catalog/Handbook on-line at the following web address: [http://www.ws.edu/catalog](http://www.ws.edu/catalog).

**Alternative Teaching Plan**
In the event of a pandemic or other college declared critical event, the lead faculty member for this course will use eLearn to communicate with the students. If the lead faculty member is affected by this event, another member from the teaching team will assume instruction for the course. The course will continue utilizing an online format of instruction and testing.

**ATTENTION:** The Natural Science faculty members are concerned with proper academic advising of students in **ALL** Pre-Professional programs. It is our explicit desire to help you with any advising problems you may encounter.