COURSE DESCRIPTION
Spectroscopy, nomenclature, synthesis, and mechanisms of carbonyl and polyfunctional organic compounds with applications in other disciplines. Organic synthesis and reactions of complex natural products and commercial polymers. Three lecture and three laboratory hours per week.
Prerequisite: CH 241

COURSE OBJECTIVES
A student successfully completing the course should be able to:

LECTURE
• Determine the structure of simple organic molecules using mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectroscopy.
• Explain the fundamental principles of organic chemistry and the history, geometry, composition, and classification of organic molecules.
• Demonstrate knowledge of the structure, and chemistry of the aromatic hydrocarbons, alcohols, ethers, and their heteroatom analogs.
• Demonstrate knowledge of the structure, and chemistry of the carbonyl compounds; aldehydes, ketones, carboxylic acids, and carboxylic acid derivatives.
• Demonstrate knowledge of nomenclature, reaction mechanisms, and thermodynamics of organic reactions.

LAB
• Communicate experimental findings through lab reports
• Demonstrate reasonable lab technique, control of supplies, proper disposal of used materials, and the proper care of laboratory instruments and equipment
• Demonstrate knowledge of health and safety procedures

OFFICE HOURS
MWF 9:00 – 10:00; 11:00 – 12:00
Tu-F 4:00 – 5:00

COURSE MATERIALS
Organic Chemistry (6th Edition) by McMurry is the required text. The study guide is also available.
The following items are required for lab:
➢ safety goggles or glasses
➢ A scientific calculator
➢ A bound notebook (from bookstore)

COURSE GRADES
Tests (4/100 each) 400 900 & Above A
Quizzes 50 800 to 899 B
Homework/Assignments 100 700 to 799 C
Laboratory 250 600 to 699 D
Final Exam 200 Below 600 F

Any student dissatisfied with his/her grades during this course is urged to discuss this with the instructor.

Tests
The tests are worth 40 % of your total grade. Students are strongly encouraged to take all regularly scheduled tests. No missed tests will be made up unless the instructor excuses the absence prior to the test. If you suddenly become ill or otherwise must miss the test, call me ASAP at extension 3496. All excused non-emergencies and emergencies will be handled by taking the test at a time the instructor approves
Quizzes
The quizzes are worth 5% of your grade. At least 10 quizzes per term will be given. Quizzes may or may
not be announced in advance. Many of the quiz questions will come from the problems in the book.
Absolutely no missed quizzes will be made up.

Homework
The homework assignments are worth 10% of your grade. Homework is vital to understanding organic
chemistry. Homework will be assigned and taken up daily. Absolutely no missed homework will be
accepted.

Final Exam
The final exam will be comprehensive and worth 20% of your total grade. You must take the final exam
on the date and time it is scheduled unless you have prior approval from the Dean of the College of Natural
Sciences and Mathematics.

Laboratory
A bound notebook will be kept with a record of all experiments. Your notebook, as well as your ability to
follow directions, your lab technique, and safety practices will determine your grade. Excused lab
absences must be made-up at a time the instructor approves. All non-excused absences will receive a 0 on
the lab. The labs are worth 25% of your grade.

ABSENCE POLICY
A student cannot receive credit for a course if he/she does not attend at least two-thirds of the class
meetings, regardless of the reason for the absences.

ASSESSMENT DAY
As a part of the University's plan to assess institutional effectiveness, a day is set aside each semester for
assessment activities. This semester that day is March 14. Although no day classes meet on this
designated day, students are required to participate in assessment activities when they are called upon to do
so.

DISABILITY
The University of West Alabama strives to make its programs accessible to qualified persons defined as
disabled under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of
1993. Students who have special needs that require accommodation are responsible for notifying
instructors in each course in which they are enrolled and appropriate staff members, who in turn will refer
the student to the ADA Compliance Coordinator. Following verification of the student's status, the ADA
Compliance Coordinator will work with the instructor or staff member in implementing an appropriate plan
for accommodation of the student's needs. Support documentation of special needs from a physician or
other qualified professional will be required if deemed necessary. For additional information, students
should contact the Student Success Center, Foust Hall Rm. 7, (205) 652-3651, or the Office of Student
Life, Webb Hall Rm. 311, (205) 652-3581.

CONTENT/SCHEDULE CHANGE
The instructional schedule reflects expected class progress in course subject matter and is considered
tentative. The schedule is subject to change in content and scope at the instructor's discretion.

HONESTY/INTEGRITY
The UWA Academic Dishonesty policy stated in the General Catalogue and the student handbook will be
followed in this course.