COURSE SYLLABUS
Chemistry 313, Organic I
Summer 2012

Course: Organic Chemistry, CHM 313-61
Meets: MTWThF from 9:25 a.m. to 10:40 a.m. in SC 150
Instructor: Dr. Kevin Church, SC 407 or Lab 436, kchurch1@udayton.edu
Text: Organic Chemistry by Francis A. Carey 8th Ed.
Office Hours: 1:00 pm to 2:00 pm MTWThF or by appointment.

Course Objective:

By the end of this course the student will be able to recognize common organic functional groups and predict their chemical reactivity and physical properties. The student will also have competency in naming common organic compounds. These goals are accomplished by good class attendance and working assigned practice problems. The goals are evaluated by performance on 3 midterm exams and a comprehensive final exam.

Tentative Schedule:

Mon.	May 12	First Day of Class. Introduction and Start Chapter 1: Structure Determines Properties.
Wed.	May 14	Start Chapter 2: Alkanes and Cycloalkanes. Introduction to Hydrocarbons.
Fri.	May 16	Start Chapter 3: Alkanes and Cycloalkanes. Conformations and Cis-Trans Stereoisomers.
Tues.	May 20	Start Chapter 4: Alcohols and Alkylhalides.
Thurs.	**May 22**	**First Examination, 8:00am to 10:00am in SC 181, then resume class.**
Mon.	May 26	Memorial Day. No Classes
Mon.	May 27	Start Chapter 5: Structure and Preparation of Alkenes, Elimination Reactions
Thurs.	May 29	Start Chapter 6: Addition Reactions of Alkenes.
Tues. .	June 3	Start Chapter 7: Stereochemistry.
Wed.	**June 4**	**Second Examination, 8:00 am to 10:00 in SC 181, then resume class.**
Fri.	June 6	Start Chapter 8: Nucleophilic Substitution.
Tues.	June 10	Start Chapter 9: Alkynes.
Thurs.	June 12	Start Chapter 10: Conjugation in Alkadienes and Allylic Systems.
Mon.	June 16	Start Chapter 11: Arenes and Aromaticity.
Tues.	**June 17**	**Third Examination, 8:00 am to 10:00 am in SC 181, then resume class.**

Fri. June 20 Last Day of Class.

Sat. June 21 Comprehensive Final Exam, 8:00am to 9:50 am in SC 150.

Homework and Grading Policy;

Homework problems appear below. These problems will not be graded but will serve as a vehicle for test Preparation. **I strongly encourage you to do the assigned problems**. There will be three midterm exams each one worth 125 pts. The comprehensive final exam will also count for 125 pts and must be taken to pass the course. If your final exam grade is higher than the lowest midterm then I will substitute the final exam grade for the lowest midterm grade and the final exam will then count twice. You must take all 3 midterms for the policy to take effect. Your course grade will be determined by the percentage of points you have earned from a total of 500 points. Cheating will not be tolerated and will result in a failing grade. I will not be using the +/- grading system in this course.

Additional Materials;

The book comes with a problem-solving manual. Use this manual to determine if you are solving the problems correctly. A molecular model kit is optional and will be useful if you have trouble visualizing compounds in three dimensions. You still need to convey information on the exams in chemical form. Doing the assigned problems will help the most in this regard.

Suggested Problems;

Chapter 1: 42 – 44, 46 – 49, 51, 52, 54, 55, 57, 59, 60, 65 – 67, 69 – 72.
Chapter 2: 23 – 25, 27 – 30, 33, 35, 37, 41 – 44, 46, 48.
Chapter 3: 19, 20, 24 – 28, 30 – 33, 36, 40, 41.
Chapter 4: 23, 24, 27, 30 – 34, 36, 38 – 43, 45, 49, 50, 53.
Chapter 5: 28, 30 – 34, 36 – 38, 40, 42, 44, 46.
Chapter 6: 26, 28 – 30, 32 – 34, 37, 39, 40, 43, 47, 49, 50, 55, 58, 59.
Chapter 7: 31 – 33, 36, 38 – 40, 42, 45, 47, 49, 50, 53.
Chapter 8: 20, 22, 23, 25, 27, 28, 30 – 34, 36, 39 – 41, 43, 47.
Chapter 9: 16 – 18, 21 – 27, 29, 31, 34, 36, 37.
Chapter 10: 23 – 26, 28 -30, 32, 33, 35 – 38, 41 – 43.
Chapter 11: 32 – 34, 36, 38 – 40, 43, 46 – 48, 50, 51, 54, 56.