

**INDIAN RIVER STATE COLLEGE
ORGANIC CHEMISTRY I
SPRING SEMESTER 2013**

Course Prefix: CHM 2210

Instructor: Mr. Michael P. Jones

Office: Science Center, N-307

Telephone: (772) 462-7855

E-mail Address: mjones@irsc.edu

Office Hours: Available During Posted Hours

Additional Hours Available by Appointment

Lecture: MW 9:30-10:45 A.M.

Required Text: *Organic Chemistry by David Kline*

Course Description: This course is the first semester of a two-semester sequence in organic chemistry. This course is designed for students who are enrolled in transfer pre-professional programs, such as pharmacy and medicine, as well as biology, chemistry and related areas. In this course, the nomenclature, preparation, reactions, and the electronic and structural feature of carbon-containing compounds will be investigated. Classes of organic compounds studied includes alkanes, cycloalkanes, alkenes and alkynes.

Prerequisites: CHM 1046 and CHM 1046L. Corequisite: CHM 2210L

Learning Outcomes: The student should be able to meet the following learning outcomes:

Using the scientific method, critically analyze and evaluate scientific data and utilize analytical skills to solve problems in chemistry

Attendance: You are **responsible** for all material covered in lecture. For this reason attendance at all lectures is expected. Absences will lower your comprehension of the material and could be a major contributor to a difficulty with the course material. Attendance will be taken during each class period. Attendance is mandatory if indicated by your financial aid or granting agency.

Class Conduct: Classes will begin and end on time. To minimize disruptions to others, students must be on time and plan to stay until class is dismissed. A student will be allowed three tardies. Each subsequent time a student is late will result in a three percentage point deduction from the next exam.

Cell Phone Usage: All cell phones must set on silent or off during the class period. Any student who uses a cell phone to make or answer a call or send and read text messages or emails, **other than IRSC emergency messages** during class may be asked to leave and may be considered absent for that class. No student has the right to disturb the teaching and learning process.

Cheating/Plagiarism: Anyone caught cheating or plagiarizing will get an immediate F for the course and will be reported to the Vice President of Student Affairs.

Withdrawal from the Course: The last day to withdraw from the course with a grade of “W” is March 19. After this date, an instructor’s withdrawal will only be given for extraordinary circumstances (illness, military commitment, etc.) Please note that **a failing grade is not considered sufficient reason for an instructor’s withdrawal.**

Grades: Determination of the final grade for the course will be based on hour exams, quizzes and a comprehensive a final exam The grade distribution will be as follows::

Hour Exams	75 %
Final Exam	25 %

The final letter grade will be based on the following percentage scale:

A	90-100
B	89-80
C	70-79
D	60-69
F	<60

Hour Exams: There will be three one-hour exams given as shown on the schedule. The lowest of the four exams will be dropped. There will be no make-up exams. **Note: The dropped score is in case you get ill on the test day or are unable to take the exam for any other reason.**

Homework Problems: At the end of each chapter I will recommend that you work certain problems. These problems are not collected or graded.

Final Exam: A comprehensive, two-hour final exam will be given covering all lecture material. **The final exam cannot be made up.**

TENTATIVE SCHEDULE

<u>Chapter</u>	<u>Subject</u>
1	Review of General Chemistry
2	Molecular Representationd
3	Acids and Bases
4	Alkanes & Cycloalkanes
5	Stereoisomerism
6	Chemical reactions & Mechanisms
7	Substitution reactions
8	Alkenes: Structure and Preparation
9	Addition reactions of alkenes
10	Alkynes
11	Radical reactions
12	Synthesis

TENTATIVE EXAM SCHEDULE

Exam	Date
Exam #1	January 30
Exam #2	February 27
Exam #3	March 20
Exam #4	April 17
Final Exam	April 29

SUGGESTED HOMEWORK PROBLEMS

Chapter	Problems
1	34, 35, 38, 39, 42, 46, 50, 52, 53, 56, 58, 59
2	39, 41, 42, 44, 45, 46, 49, 51, 53, 54, 55, 56, 57
3	36, 37, 38, 39, 42, 43, 46, 47, 50, 51
4	39, 40, 41, 43, 45, 46, 51, 54, 59, 60
5	32, 33, 36, 38, 39, 40, 41, 42, 46, 51, 52
6	20, 21, 22, 25, 27, 29, 31, 32, 35, 39, 41, 42, 46,
7	36, 37, 39, 41, 44, 46, 48, 50, 51, 55, 60, 62
8	50, 51, 53, 57, 61, 62, 64, 66, 68, 77
9	49, 50, 54, 58, 63, 65, 66, 70
10	35, 36, 37, 38, 40, 41, 43, 46, 48, 50, 55, 56, 59
11	22, 24, 25, 28, 30, 31, 33, 36
12	17, 18, 19, 20, 21