

**INDIAN RIVER STATE COLLEGE  
CHEMISTRY 2210L  
FALL SEMESTER 2014**

**Course Title:** Organic Chemistry I Lab

**Course Prefix:** CHM 2210L

**Instructor:** Mr. Michael P. Jones

**Office:** Science Center N-307

**Telephone:** (772) 462-7855

**E-Mail:** mjones@irsc.edu

**Office Hours:** Available during Posted Hours

**Additional Hours Available by Appointment**

**Required Materials:** 8 ½ X 11 Compositional Notebook  
Handouts of Laboratory Experiments (Provided by instructor)

**Course Description:** CHM 2210L is the laboratory component for CHM 2210 lecture and will allow students an opportunity to verify on a first-hand basis, the chemical concepts covered in the lecture class. The student will learn basic techniques commonly used in organic chemistry.

**Learning Outcomes:**

- 1) Using the scientific method, critically analyze and evaluate scientific data and utilize analytical skills to solve problems relevant to chemistry

- Follow the scientific method to solve problems
- Understand safety procedures in the lab
- Record data, results, and conclusions
- Purify organic compounds
- Use common organic laboratory equipment
- Synthesize organic compounds

**Attendance:** Attendance of the laboratory is **MANDATORY**. There are no make-up labs.

**Class Conduct:** Classes will begin and end on time. Lab officially begins when I start my pre-lab presentation. If a student is more than 20 minutes late, the student will be credited with a missed laboratory.

**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

**Grades:** Determination of the final grade for the course will be based upon on laboratory technique and reports, as well as a midterm and a final exam. The grade distribution will be as follows:

Lab Notebook and Technique	50%
Midterm Exam	25%
Final Exam	25%

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

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

**Midterm & Final Exam:** The midterm & final exams will cover the calculations and techniques pertinent to each laboratory experiment. The laboratory midterm will cover the first series of experiments and the final will cover the remaining experiments. **The midterm & final cannot be made up.**

**Accessibility Statement:** In compliance with the Rehabilitation Act of 1973, Section 504, and the Americans with Disabilities Act of 1990, professional disability specialists and support staff at the Student Disability Services (SDS) facilitate a comprehensive range of academic support services and accommodations for qualified student with disabilities. IRSC offers many disability resources at on-campus labs. Student who wish to request an accommodation for a documented disability should contact the SDS at 772-462-7762 or 772-462-7808.

### **Non-Discrimination and Non-Harassment Policy**

Indian River State college is committed to maintaining a fair and respectful employment and educational environment. In accordance with federal, state, and local equal opportunity laws, Indian River State College prohibits discrimination on the basis of race, color, national origin, ethnicity, sex, religion, age, disability, sexual orientation, marital status, veteran status, or genetic information.

## TENTATIVE LABORATORY SCHEDULE (Thursday)

DATE	EXPERIMENT
Aug 28	Check In, Lb Safety, Introduction
Sept 4	Fractional Distillation
Sept 11	Steam Distillation
Sept 18	Thin Layer Chromatography/Melting point
Sept 25	Column Chromatography
Oct 2	Purification by Recrystallization
Oct 9	Extraction by Solvent Partitioning
Oct 16	<b>Midterm Exam</b>
Oct 23	Preparation of Butyl Iodide
Oct 30	Dehydration of 2-Methylcyclohexanol
Nov 6	Preparation of Diisobutylenes
Nov 13	Preparation of Isopentyl acetate (Banana Oil)
Nov 20	Biosynthesis of Alcohol
Nov 27	<b>THANKSGIVING (NO LAB)</b>
Dec 4	<b>Final Exam</b>