Queens College of the City University of New York
Department of Chemistry and Biochemistry
Basic Organic Chemistry
Chem 102.1 Laboratory Schedule Fall 2015


Week 1 Check-in. Review of safety rules and instruction for waste disposal.
Week 2 Isolation of pure acetylsalicylic acid from aspirin tablets
Week 3 Molecular Models, Exp 21 p 239-251
Week 4 Identification of Hydrocarbons Exp 24, p. 289-299
Week 5 Chromatography, Exp 23, p. 275-287
Week 6 Identification of Alcohols and Phenols, Exp 25, p. 301-312
Week 7 Identification of Aldehydes and Ketones, Exp. 26, p. 313-327
Week 8 Carboxylic Acids and Esters, Exp. 27. p. 329-340
Week 9 Amines and Amides, Exp. 28, p. 341-352
Week 10 Preparation of Aspirin, Exp 30, p365-376
Week 11 Isolation of Caffeine from Tea Leaves, Exp 31, p. 377-387
Week 12 Carbohydrates, Exp. 32, p 389-398
Week 13 Preparation of Hand Cream, Exp 35, p. 423-431

Week 14 Check Out (No lab work can be done)

Each student must work independently -do your own experiments!

Grading: Lab report and results: 75%; Lab technique: 10%; 12 quizzes: 15%

SAFETY GLASSES MUST BE WORN AT ALL TIMES!!

Your laboratory instructor will tell you how to keep your notebook; answer all questions at the end of each chapter. Write reports in ink.

If you drop the course, you must check out of the laboratory.

Food, drinks, and chewing gum are not permitted in the laboratory. Use the lockers in the hall for coats etc.

College schedule –check QC academic calendar often
Course Objectives: Students will learn basic organic laboratory techniques including isolation and purification of organic compounds, and identification of organic compounds using chromatography and chemical tests; problem solving via understanding the use of the analytical tests is emphasized. Structural organic chemistry, which is a major focus of the lecture part of the course, will be covered in a molecular models session. Students will learn to carry out basic preparations of compounds and mixtures. At the conclusion, students will have a foundation that will allow them to carry out basic organic laboratory procedures, they will know how to keep an organic laboratory notebook, and they will know basic safety procedures including handling of hazardous waste.

Assessment: Lab instructors will assess students by means of 12 short unannounced written quizzes on the procedures to be carried out, by grading of lab notebooks, by collecting laboratory products and assessing them for yield and purity and accuracy of reported results in the student notebook, and by observation of the students during lab, including student technique and adherence to safety rules.