Syllabus O-Chem Lab I CHEM 222L Summer 2018

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Office: 213 SCL M-F, directly after lecture class/before lab class/after lab class

ORGANIC LAB ROOM SUMMER SESSION: Room 233 SCL

LAB SECTIONS: Monday and Wednesday, 12:30 pm until 4:30 pm
Lab begins, Monday, May 28, Memorial Day with a mandatory Safety Lecture and Tour of Facility

REQUIRED MATERIALS

1. **Course Packet**: Contains all necessary course information: experimentation schedule, due dates, grading, all directions for lab notes and experimentation and policies on attendance, academic honesty and safety. It’s free at Canvas/Modules. Purchase a hardcopy from TYCO. https://www.tycoprinting.com/


3. **Lab Notebook**: Reuse a notebook from another lab class if 1) it is capable of making copies for your TA and 2) there are plenty of pages remaining! One example: ISBN-13: 978-0716739005

4. **Long Lab Coat**: It must go to the knee! THIS IS NOT AN OPTION. Buy it at the Yale Bookstore or from an online vendor. Do not buy short lab coats.

   Unisex size chart: http://www.allseasonsuniforms.com/fssize.htm
   Unisex, 40 inch, knee length, long sleeve, 65% poly/35% cotton, lab coat – example brands are White Swan and Dickies.

5. **LOCK for backpack/coat lockers**: Backpacks and other personal items are not permitted in lab. The lockers are located in the hallways outside of the lab rooms. Protect your belongings from thieves! Since we are the only people using the lockers in the summer, you can use a locker to store lab appropriate clothing and shoes for the term.

6. **Proper Clothing**: pants that cover legs and ankles (no shorts, skirts or Capri pants), shoes that cover the ENTIRE foot (no sandals, flip flops or ballet type), no earbuds or head phones. If you come to lab with improper clothing you will need to leave, change and walk back up the hill. Good for the waistline, but bad for finishing lab on time! Please bring extra clothes and leave them in your locker so that you never forget.

7. Thick Sharpie Markers® for writing on glassware.

ADDITIONAL REQUIRED COURSE MATERIALS- We will provide the following:

1. Lab safety glasses/goggles
2. Nitrile gloves
3. Loner lab coats – if you are waiting for yours to arrive or spill something on yours during lab.
The Course Packet provides details with respect to readings, assignments and experimental procedures.

(TENTATIVE) SCHEDULE OF EXPERIMENTATION AND DUE DATES

EP = experimental plan; PL = post lab assignment

M 5/28  **Lab 1**: Safety Lecture; Tour of Facilities; Safety Lecture and Safety Agreement; Check-In; Chemical Table for Labs 2-5

Assigned: Read Course Packet through Lab 1 (due May 28 by noon)

Chemical Tables (due May 29 by 11 pm); 20 points

W 5/30  Lab 2: Demos and practice of techniques: separation, vacuum filtration, mp analysis, solvation; prepare solutions for Lab 3; mass materials for Lab 3; set up hood for Lab 3

Assigned: Quiz Safety Policies and Procedures (in lab, May 30); 20 points

M 6/4  Lab 3 and 4: Separation by Extraction (from 12:30 – 3 pm) and Purification by Recrystallization/Mp Analysis (from 3pm -4:30)

Assigned: EP 3 and 4 (due 6/4 by noon); 20 points

W 6/6  Lab 5: TLC and Column Chromatography and (Finish Up Labs 3 and 4)

Assigned: EP 5 (due 6/6 by noon); 10 points

PLA (Labs 1-5) (due 6/10 by 11 pm); 100 points

Chemical Table Labs 6-10 (due 6/10 by 11 pm); 20 points

M 6/11  Lab 6: IR lecture (1 hour) and Lab with Worksheet (2 hours)

Assigned: EP 6 (due 6/11 by noon); 10 points

IR Worksheet (due in lab on 6/11); 50 points

W 6/13  Lab 7: Synthesis of salicylic acid

Assigned: EP 7 (due 6/13 by noon); 10 points

M 6/18  Lab 8: Synthesis of benzhydryl ether

Assigned: EP 8 (due 6/18 by noon); 10 points

W 6/20  Lab 9: Synthesis of camphor

Assigned: EP 9 (due by 6/20 by noon); 10 points

PL B (due by 6/21 by 11 pm); 100 points
TH 6/21    Exam Review @ 11: a.m. in the lab
M 6/25    Check-out, followed by exam; meet in the lab

Assigned: Exam (in lab on 6/25); 200 points

GRADES

Grades are calculated as (total points earned – penalties) / (total points available). Letter grades are assigned at the end of the term by the instructor.

Lab Penalties (Point Deductions)
- Late work: 5% per day, beginning the day the assignment is due.
- Experimental Plan: if a student has not turned in an EP by lab time, the penalty is 10 points, nonrefundable. The student will prepare an EP before proceeding.
- Addressing lab safety or housekeeping issues: deduction of 5 points each time after 1st warning
- Unexcused absence: deduction of 20 points

Attendance: Attendance at scheduled lab sessions is expected. It is especially difficult to arrange makeup in the summer session. Bring issues that hinder your ability to meet course responsibilities to Dr. DiMeglio’s attention immediately.

ACADEMIC INTEGRITY in O-Chem Lab
The Chemistry Department Teaching Staff is committed to your personal and professional growth as a scientist. We hope that your future includes higher level teaching labs, research internships, graduate school and medical school. With these hopes in mind, we compose assignments with intention.

We need your help. Academic misconduct undermines our goals, derailing our intentions. When you know and follow the rules for your personal conduct, bench work and assignments, you become a partner in our work to deliver a quality course.

We will hold the line and defend academic integrity by reporting suspected academic misconduct to the executive committee for further review. It is our goal to report no one from this course! Help us meet our goal.

- **Work independently** in the lab and on lab assignments unless specifically instructed to work with others. This includes experimental plans, experimental notes, product data and spectra, reports and any other graded assignment.
- Do not divide the workload among peers using Google Docs, or any other system
- Do not fabricate or falsify data. Discuss how to handle poor data or lack of data with the instructor.
- Do not copy and paste material into an assignment as if it were your own work, by any means. This includes material from course packets, textbooks, websites, another student’s work, past or present,
• Do not jeopardize another student’s academic integrity by asking that person to give you information or by giving a student your work to copy.

• DO NOT make your graded material available to another student or to a website for people who want to cheat.

• Cite sources appropriately. Identify people with whom you collaborate, and the nature of that collaboration. The section of the course packet called Citing Sources gives full instruction on these topics.

• Refrain from providing or asking for information about the content of lab exams or quizzes. The course is scaled; you hurt yourself and your section mates when other students have such advantages.

• ACCEPT the LATE PENALTY. SAY NO WHEN ASKED.

• Visit the Yale Writing Center if you need more help understanding plagiarism.

  http://ctl.yale.edu/writing/using-sources/understanding-and-avoiding-plagiarism/what-plagiarism