

INTRODUCTION TO GENERAL, ORGANIC AND BIOCHEMISTRY I LABORATORY

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3150:111
Fall, 2011

KNCL-304/306

DESCRIPTION: Prerequisite/Corequisite: 3150:110. Sequential. Laboratory course applying principles of chemistry and fundamentals of inorganic, organic and biochemistry.

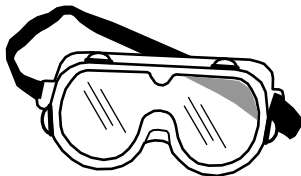
TEXTS: Chem. Dept., *Chemistry 111/113: Introduction to General, Organic, and Bio-Chemistry* (required)

SCHEDULE:

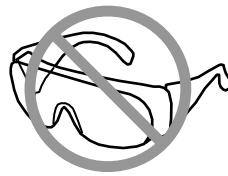
| WEEK OF | EXPT. | SUBJECT | QUIZ |
|---------|-------|-------------------------------------|--------|
| 08/22 | | Check-in & Safety Instruction | |
| 08/29 | 1 | Laboratory Measurements | Safety |
| 09/05 | | NO LAB | |
| 09/12 | 3 | Separation of a Mixture | |
| 09/19 | 2 | Densities | Gexp3 |
| 09/26 | 4 | Paper Chromatography | Gexp2 |
| 10/03 | 5 | Calorimetry | Gexp4 |
| 10/10 | 6 | Molecular Mass of a Volatile Liquid | Gexp5 |
| 10/17 | 7 | Buffers | Gexp6 |
| 10/24 | 8 | Colligative Properties | Gexp7 |
| 10/31 | 9 | Reaction Rates | Gexp8 |
| 11/07 | 10 | Analysis of Vinegar | Gexp9 |
| 11/14 | | Check-out | Gexp10 |

NOTE: The actual order of experiments may vary. Material may be added, deleted, or rescheduled as class need requires or time permits.

SAFETY. Eyes, legs, and feet **must** have protective clothing. Consistent with the provisions of *Freshman Laboratory Policies, Procedures and Rules*, any clothing that exposes the legs and feet are unacceptable attire for this course. **REGULATION SAFETY GOGGLES MUST BE WORN IN THE LABORATORY:**



REQUIRED:
Safety Goggles



NOT ACCEPTABLE:
Safety Glasses

You could be asked to leave the lab if you wear inappropriate clothing or do not wear your goggles!

SCHEDULING. If the University closes on the day a class is scheduled, the experiment and/or quiz may be rescheduled. Failure to complete an experiment or take a quiz will result in a zero (0) grade. **THERE WILL BE NO MAKE-UP SESSIONS.**

QUIZZES. Ten 5-point quizzes, covering pre-lab material in the most recently completed experiment, will consist of 4-5 free response questions (except the safety quiz). The lowest grade will be dropped

EXPERIMENTS. Each experiment will be graded on a 10-point basis. Pre-lab exercises must be turned in **at the beginning** of each lab session. Data and calculations sheets must be turned in **by the end** of each lab session. The lowest grade will be dropped.

GRADING. Grades are calculated as follows:

| | |
|--------------------------------|-----|
| Quizzes [(10-1) @ 5pts]: | 45 |
| Experiments [(10-1) @ 10pts]: | 90 |
| Maximum point total: | 135 |

$$course\% = \frac{\sum(labs) - lowest(lab) + \sum(quizzes) - lowest(quiz)}{135} \times 100$$

| | | | |
|-----|---------|-----|--------|
| A : | 100-92% | C : | 73-70% |
| A-: | 91-89% | C-: | 69-66% |
| B+: | 88-86% | D+: | 65-62% |
| B : | 85-82% | D : | 61-56% |
| B-: | 81-78% | D-: | 55-50% |
| C+: | 77-74% | F : | <50% |

WITHDRAW. A student may add/drop this course in accordance with the procedures described in the current Academic Catalog (<http://www.uakron.edu/registrar/dates/fallad.dot>). **NON-ATTENDANCE DOES NOT CONSTITUTE OFFICIAL WITHDRAWAL.** The last day to drop without “WD” appearing on student’s academic record is **SEPTEMBER 5th**. The last day to withdraw from classes/lab is **OCTOBER 9th**.

Any student involved in academic dishonesty such as plagiarism or similar misconduct will automatically receive a grade of F. In such instances, further penalties, including probation and dismissal, will be administered in accordance with the provisions of the *Student Disciplinary Procedures*.

OFFICE HOURS. Students should schedule consultation with their instructor on an as-needed basis.