CHEM 2153 Fundamentals of Organic Chemistry Lab - Spring, 2019

CHEM 2153 Lab Classes

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<tr>
<th>Sec</th>
<th>Day</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
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<tr>
<td>01Z</td>
<td>M</td>
<td>2:00 pm - 4:50 pm</td>
<td>Mr. Boudreaux</td>
<td>CAV 227</td>
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<tr>
<td>02Z</td>
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<td>2:00 pm - 4:50 pm</td>
<td>Mr. Boudreaux</td>
<td>CAV 227</td>
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Faculty Information

Mr. Kevin Boudreaux
Office: CAV 207B
Phone: 486-6623
E-mail: Kevin.Boudreaux@angelo.edu
Office Hours: M-F 9:30-11, or by appointment

The first essential in chemistry is that thou shouldst perform practical work and conduct experiments, for he who performs not practical work nor makes experiments will never attain the least degree of mastery.

Jabir ibn Hayyan (Geber) (721-815)

Required Equipment
Safety Goggles

Prerequisite
You MUST have passed CHEM 1405 or 1411 to receive credit for this course!

Course Description
CHEM 2153 is the laboratory which accompanies the lecture course in Fundamentals of Organic Chemistry (CHEM 2153). This is a one-credit class which is separate from the lecture course; i.e., the lab grade is not included as a part of the lecture course grade.

Student Learning Outcomes
By the end of the semester the student should be able to:
- Understand how to safely work with chemicals.
- Perform several basic types of chemical purification procedures (distillation, recrystallization, etc).
- Understand the effect that the structure of a compound has on its physical properties.
- Perform several fundamental types of reactions involving organic chemicals.
- Be able to calculate theoretical and percent yields of chemical reactions.

Grading
There will be 13 experiments in this course. Each lab report will be worth 100 pts., including 5 points for lab performance and technique. The final grade will be obtained by averaging the scores from the individual labs. (The lowest score will be dropped.)

Labs
The procedures for each experiment will be made available on Blackboard the week before the scheduled date for the lab. It is your responsibility to download and print out the procedure and lab report forms for each lab.

**Makeup policy**
Labs which have been missed for valid reasons must be made up *no later than one week following the absence.*

**Laboratory Dress**
Beginning on the first day of lab, everyone MUST have approved goggles, long sleeves, long pants, and closed-toed shoes (no sandals, etc.). *Anyone not wearing the appropriate attire will not be allowed into lab.*

**Cleanup Policy**
Clean up your bench before leaving; make sure that the gas and water are turned off, and hotplates are unplugged. If the microscale kits are used, these kits must be returned with ALL of the glassware clean and dry. Five points will be deducted from the lab report grade for every piece of glassware which is missing, damaged, or dirty. *If the hoods and balances are left dirty at the end of the period, or reagents are left uncapped, lab performance points will be deducted from the entire class!*