



Organic Chemistry II

Professor Sessions

Course Learning Outcomes

- 1. Students will be able to apply the scientific method in the laboratory setting.
- 2. Students will be able to practice safe laboratory behaviors.
- 3. Student will be able to examine and predict the properties, reactions, and mechanisms of organic compounds.

Embedded Model Course Plan

■ **First 8 Weeks:**

- Learn the basic reactions and lab techniques
- Write one formal lab report
- Join a collaborative group
- Choose one lab experiment from the lab manual (org 1 and org 2) to make more green
- Literature search

■ **Second 8 Weeks:**

- Develop a more green procedure
- Write proposal (introduction of the research paper with experimental, safety protocols, and references)
- Test experiment in the lab
- Analyze results
- Write research paper (add discussion and conclusion)

A green speech bubble graphic with a white outline, containing the text 'Campus Resources'. The bubble has a tail pointing downwards and to the right.

Campus Resources

- **1. Library**
 - Access to journals, books, etc. on green chemistry
 - Presentation to students on reliable sources and navigating databases
- **2. Tutoring**
 - Writing center or SmartThinking
 - Encouraged/optional resource
- **3. Lab**
 - Budget for materials
 - Flexibility in set-up

Assessment

- **Research paper**
- **Collaborative learning evaluation of peers (to encourage individual accountability)**
- **Survey on attitude and enjoyment of the work**

- **Poster at College-wide Poster Showcase encouraged**