

Organic Chemistry I

CHEM2070

Prof. Anne E. V. Gorden

- Class Hours: CHEM 151 - Mon., Wed., & Fri. 9-9:50
- Office Hours: Monday 2-3:30 CHEM 261
Wednesday 1:30-3

Canvas! <https://auburn.instructure.com/>

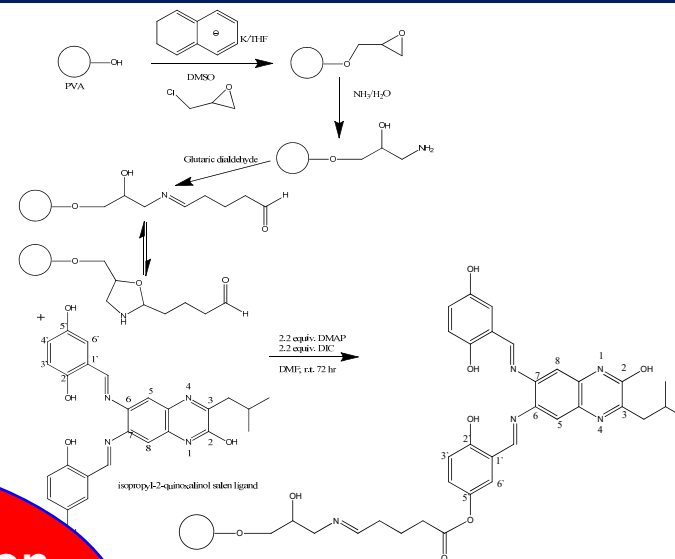
- Email - anne.gorden@auburn.edu
 - ◆ please put CHEM 2070 in the subject heading.
- SI –Will Cordell
 - ◆ Tuesday! 5:30-7:00pm in Mell 3550b
 - ◆ Thursday! 5:30-7:00pm in Mell 3550b

A little about me

- ◆ Anne Elizabeth Vivian Gorden
- ◆ anne.gorden@auburn.edu
- ◆ Grew up in Texas
- ◆ Undergrad at Emory - Chemistry and Literature
- ◆ Ph.D. in Organic Chemistry –
 - University of Texas with Jonathan Sessler
 - Expanded Porphyrins, Texaphyrin, and Pharmacyclics
 - Research at Los Alamos National Laboratory
- ◆ Postdoctoral research
 - University of California - Berkeley
 - With Kenneth N. Raymond
 - Plutonium decorporation agents

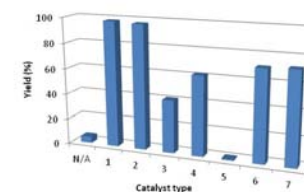
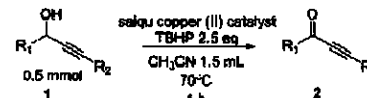
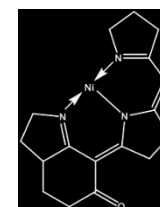
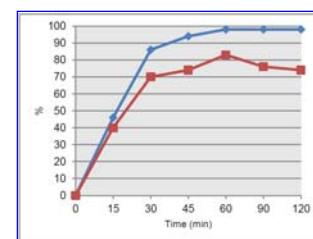
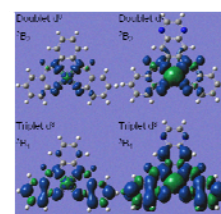
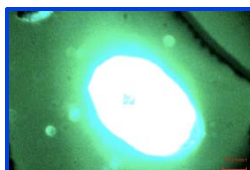
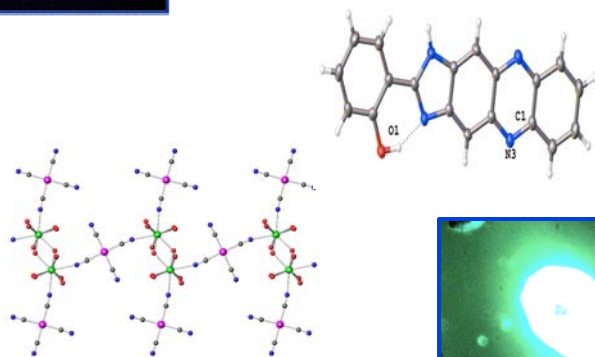


Supports



**Synthesis,
Molecular Recognition,
Coordination Chemistry,
And Environmental
Chemistry**

Catalysis

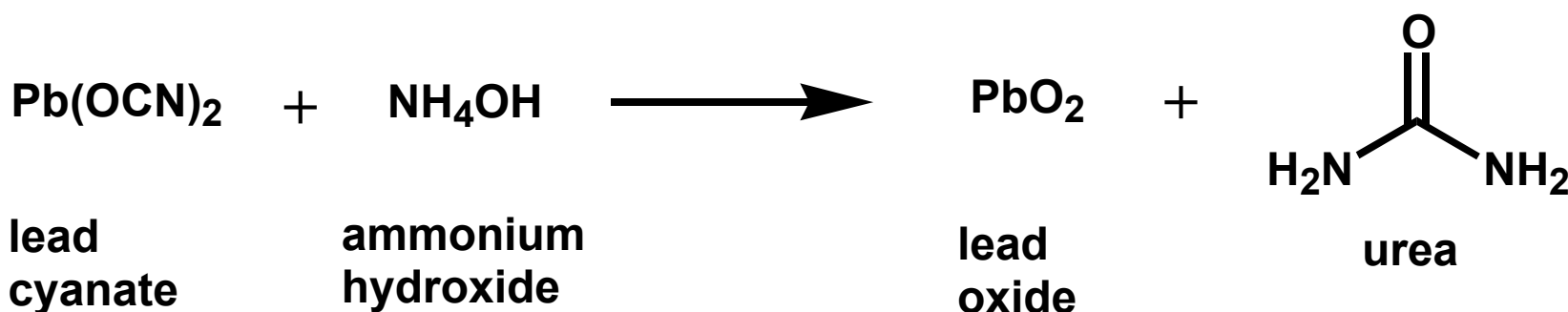


What is Organic Chemistry?

Organic Chemistry was originally defined as the chemistry “of life.”

1780 - The compound Urea was isolated by Roulle from urine.

1828 - Whöler synthesizes urea from two “inorganic” compounds



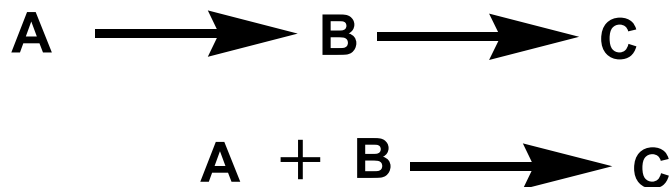
We define organic chemistry as the chemistry of carbon compounds. — August Kekulé

Introduction to Organic Chemistry

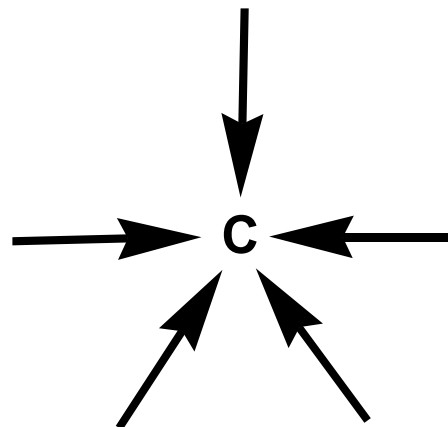
► Why is this class HARD?

1. You cannot memorize everything.
2. The class starts with its own language and pictographs or “nomenclature.”
3. There is a great deal of visualization in understanding how structure affects the function or reactivity of a compound.
4. You will need to develop a different set of thinking skills.

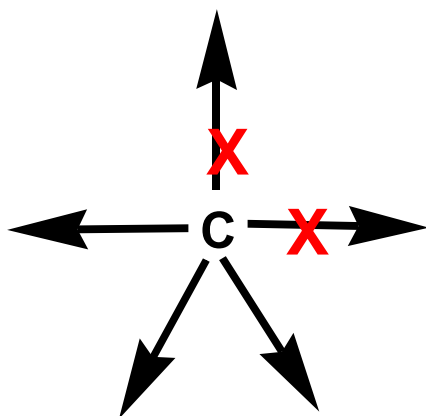
Introduction to Organic Chemistry



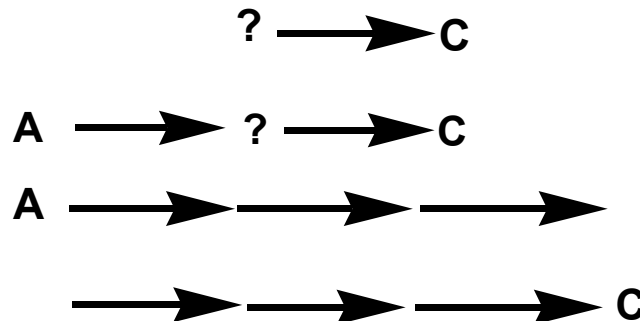
Linear Thinking



Deductive Reasoning



Divergent Thinking



Intuitive Thinking

Organic Chemistry – Part I

Text: *Organic Chemistry*, David Klein **3rd edition 2017**

➔ Access to the WileyPlus online homework.

➔ Ball and Stick Model Set.

Recommended:

- ▶ *Chemistry: The Central Science* – Brown, LeMay, Bursten, Murphy
or *Chemistry: Atoms First* – Burdge, Overby
- ▶ *Organic Chemistry as a Second Language I* - Klein

Canvas: <https://auburn.instructure.com/>

- ▶ Skeleton Notes
- ▶ Weblinks
- ▶ Handouts
- ▶ Announcements

Introduction to Organic Chemistry

Grading:

- ▶ The PRE-LECTURE QUIZZES will be 5% of your grade.
 - ▶ The ONLINE HOMEWORK will be 10% of your grade.
 - ▶ The three MIDTERM EXAMS will be 60% of your grade.
 - ▶ The FINAL EXAM will be 25% of your grade.
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- ▶ *Requests for regrades may be submitted in writing within one week after a midterm is handed back.*
 - ▶ During the semester, if you miss an exam with a university excused absence, make-up exams will be given Friday afternoons in CHEM 134.

Introduction to Organic Chemistry

Exam Rules:

- ▶ NO – notes, books, PDAs, cell phones, pagers, molecular models, graphing calculators, or programmable calculators.
→ nothing that looks like an apple watch
- ▶ Use blue or black ink.
- ▶ NO – red ink will be graded.
- ▶ NO – erasable ink.
- ▶ Exams in pencil will not be eligible for a regrade.
- ▶ You will be asked to show your AU ID when you take your test.



How to do Well in Organic Chemistry

1. Prior to lecture - read the textbook.
2. Set aside at least 1 hour each day just for studying organic chemistry.
3. Read the book aloud to yourself.
4. Find a "Study Buddy"
5. Print out the notes before coming to class.
6. Rewrite your notes from class after class.
7. Do the end of the chapter homework problems.
8. Only after you do the reading and the practice problems – *then* use the online homework to quiz yourself.
9. Participate in the in class activities
- 10. COME to CLASS!**

For Next Time.....

- ▶ Wednesday Sections 1.1-1.7
- ▶ Friday Sections 1.8 – 1.11
- ▶ Monday Chapter 2
- ▶ Homework Practice Problems Chapter 1
#8,12,15,37,39,43,45,48,49,53,56
- ▶ If you will be needing Accommodations – please contact me as soon as possible.

That which we persist in doing becomes easier for us to do; not that the nature of the thing itself is changed, but that our power to do is increased.

Ralph Waldo Emerson, 1803-1882