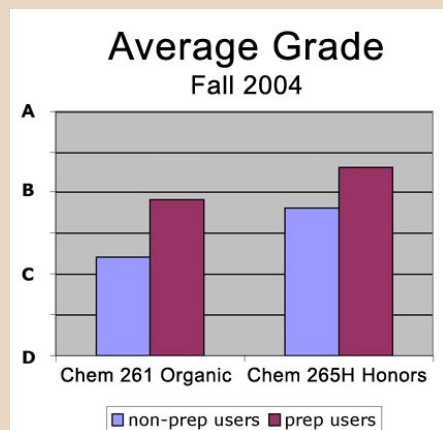


Organic ChemPrep can help!

The average grades of students who completed *Organic ChemPrep* were higher than those who did not.

Chem 261 - Organic Chemistry
Chem 265 - Honors Organic Chemistry



Organic ChemPrep will be available in January for the spring semester and during the summer for the fall semester. For detailed scheduling and enrollment information go to:

www.chem.umass.edu/orgchemprep

We sincerely hope that you will join us!

Professors Stephen Hixson, Peter Lillya,
and Peter Samal
University of Massachusetts Amherst
OWL Organic Chemistry Developers



Are you worried about taking Organic Chemistry?



Organic ChemPrep

University of Massachusetts Amherst

Organic ChemPrep

Organic Chemistry is considered by many students to be very challenging. We have found that students can overestimate their “readiness” to do well in this course. We have therefore developed *Organic ChemPrep*, an on-line, short course that has proved to be very effective at helping students to review key chemistry concepts and to hit the ground running in first term organic chemistry.

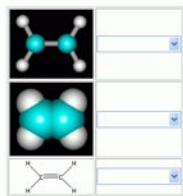
Organic ChemPrep is a web-based course delivered through the OWL system.

- 24-hour access
- Self-paced
- Self-contained (no textbook)
- Non-credit
- Free of charge
- Taken **before** the semester begins
- Approximately 10 hours to complete
- For skill building and review

Although you will work independently, you are encouraged to interact with the course instructors via the OWL message system while the course is in session. No formal grade will be assigned and there are no penalties for incomplete performance.

Chemical Formulas Scientific Notation Periodic Table Tables

Classify each of the following representations for ethylene as Lewis, ball-and-stick, or space-filling.



The chemical formula for ethylene is

Preview

Topics

1. Introduction to the OWL System
2. Electronic Structure of Atoms
3. Lewis Structures of Molecules
4. Properties of Molecules: Molecular Geometry and Polarity
5. Chemical Bonding. Valence Bond Theory and Resonance
6. Writing Structural Formulas
7. Organic Compounds: Alkanes and Functional Groups
8. Acids and Bases

Who should take Organic ChemPrep

Organic ChemPrep is appropriate for students of all levels. If you have a strong general chemistry background you should be able to move through the materials quickly, focusing on those areas where you may have gaps. If you had difficulty with general chemistry, evaluation studies show that you are at risk of doing poorly in Organic Chemistry. Time spent in *Organic ChemPrep* will help you to lay a good foundation for your Organic Chemistry course.



About OWL



OWL (Online Web-based Learning) is an electronic learning environment originally created in a joint project between the Chemistry and Computer Science Departments at the University of Massachusetts Amherst. OWL is currently in use by over 30 departments on campus in disciplines ranging from physics and chemistry to resource economics and art history.

OWL Chemistry

- Mastery Learning System (material must be mastered in order to receive credit)
- Extensive database of questions and interactive modules
- Questions - Fully parameterized (numerical and chemical systems change for each question)
- Feedback - Complete and parameterized
- Interactive Modules - Tutors, Simulations and Exercises
- Chemical drawing and visualization tools

Students may answer each question as often as they like. Questions have variable numbers and chemical systems, so that a new set of questions is presented each time. Highly detailed solutions are provided for every question as soon as the student submits an answer for judging. In this way, each question presents an opportunity for learning and students learn by doing.

OWL: General Chemistry and OWL: Organic Chemistry are licensed and distributed by Thomson Learning - Brooks/Cole Publishing. They are used on over 100 college and university campuses nationwide.