

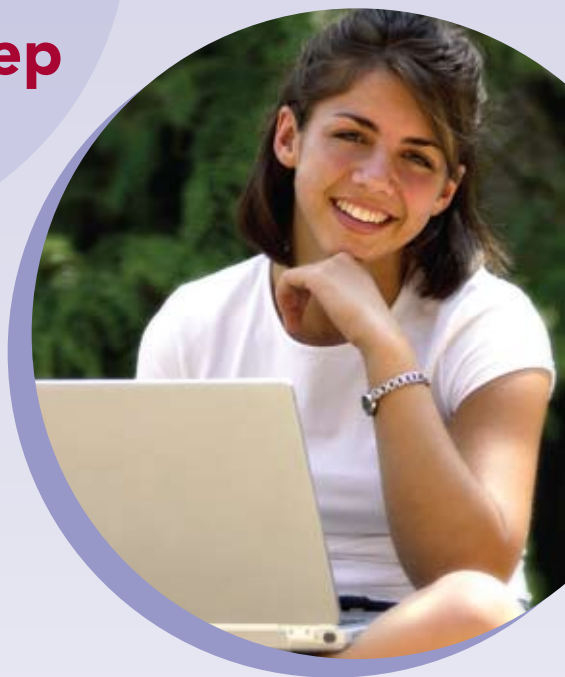
Are your students prepared for Organic Chemistry?



OWL Quick Prep Can Help!

Organic Chemistry is sometimes a challenging course for students and they often over estimate their “readiness” to do well in the course. Therefore, the University of Massachusetts has developed **OWL Quick Prep for Organic Chemistry**, an online short course that has proved to be very effective at helping students review key general chemistry concepts that are needed for Organic Chemistry. Students hit the ground running in the first term of their organic chemistry course.

Quick Prep is a flexible system, designed so students can either work independently or you can track their progress through the course and assign credit.



Quick Prep is a web-based course delivered through the OWL system.

- 24-hour access
- Self-paced
- Self-contained (no textbook)
- Taken before the semester begins or during the first few weeks of the course
- Approximately 10 hours to complete
- Builds and enhances skill building and review

Topics Covered:

1. Introduction to the OWL System
2. The Electronic Structure of Atoms
3. Lewis Structures
4. Shapes of Molecules
5. Polarity of Bonds
6. Valence Bond Theory
7. Writing Structural Formulas
8. Alkanes and Functional Groups
9. Acid Base Reactions
10. Survey



About OWL

OWL (Online Web Learning) is an online learning environment originally created through a joint project between the Chemistry and Computer Science Departments at the University of Massachusetts, Amherst. OWL is currently in use in chemistry departments at more than 300 schools across the United States and Canada.

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

Get More with OWL

- Developed by chemistry professors for teaching chemistry
- Unique mastery learning pedagogy helps ensure students understand concepts before moving on to new material, and they are not penalized for trying
- Chemical and numerical parameterization encourages students to think about chemistry, not just memorize how to work problems
- Diagnostic and flexible gradebook allows you to see your class progress at a glance, identify which students need attention, and much more
- Ability to author and modify questions gives you the ability to customize OWL to fit your needs

The screenshot shows a question titled "Determining Molecular Shape". It asks the user to "Predict the ideal electron geometry of the molecule" and "Construct molecules, then Submit." The molecule shown is BF_3 . The interface includes a Lewis structure of BF_3 with lone pairs on the fluorine atoms, a 3D ball-and-stick model of the trigonal planar geometry, and three multiple-choice options for the electron geometry: tetrahedral, trigonal planar, and trigonal bipyramidal. The user is instructed to select the correct answer and click "Submit".

The screenshot shows the "Current Course Assignments" page in OWL. It displays a list of assignments with columns for "Name", "Due Date", and "Status". A sidebar on the left contains navigation options like "Home", "My Courses", "Assignments", "Feedback", "Help", "About", "Contact Us", and "Log Out". The main content area shows a specific assignment with a chemical structure of a cyclopentane ring and a reaction arrow pointing to a product.

The screenshot shows a question titled "Functional Groups" asking "What type of compound is this?" The structure shown is $\text{CH}_3\text{-N(CH}_3)_2$. The user is prompted to "Enter response, then Submit." Below the question, there is a table of functional groups with their general formulas and 3D ball-and-stick models:

Alcohol	Aldehyde	Ketone	Carboxylic Acid	Ester	Amine	Amide
R-OH	R-CHO	R-CO-R'	$\text{R-CO}_2\text{H}$	$\text{R-CO}_2\text{R'}$	R_2NH , R_3N	$\text{R-NHCO}_2\text{R'}$
Alcohol	Aldehyde	Ketone	Carboxylic acid	Ester	Amine	Amide

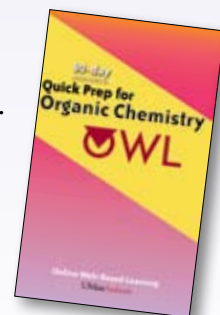


How to Gain Access:

Students: Students can purchase Instant Access to **Quick Prep** for a nominal fee by entering ISBN: 0-495-56027-8 at www.ichapters.com.

Instructors: For more information about **OWL Quick Prep** or to request information to give to your students, please contact your local Cengage Learning representative.

To view a Quick Prep demonstration, please visit OWL Demos at www.cengage.com/owl.



more content, more reliability, more service, more flexibility, more results