

Organic Chemistry Syllabus

RCAS Policies/Procedures

Students will be required to follow all RCAS policies and procedures.

Course Description

Students will be introduced to nomenclature, structural formulas, and reactions of organic compounds. Organic chemistry will include laboratory work, demonstrations, discussion, and practice building and drawing molecules.

Grading

Grades will be given to quizzes, assignments, labs, and tests. Tests will be weighted 50%, labs 30%, assignments 10% and quizzes 10%.

Textbook

Introduction to Organic Chemistry, third edition by Brown and Poon.

Reading

Students are encouraged to read the chapter in the book as we cover it in class.

Instructional Resources

Khan Academy, CK12 and Phet may be used to supplement the course.

Essential Questions

How does the structure of functional groups affect reactivity?
How can the identity of families be used to name compounds?

Essential Learning Intentions

Students can name and draw compounds from the major chemistry families.
Students can differentiate between polar and nonpolar compounds.
Students can compare the reactivity of alkenes and alkanes.
Students can use the periodic tables to determine the number of bonds in common organic elements like C, N, O, H, and halogens.
Students can draw Lewis structures.
Students can identify isomers and stereoisomers.
Students can use cis/trans and EZ in naming.
Students can predict products of reactions.