



2024-2025

Rapid City
Stevens High School

Introduction to Organic Chemistry

RCAS Policies/Procedures:

Students will be required to follow all RCAS policies and procedures. To view the RCAS High School Student Handbook, click [handbook](#).

Course Description:

In this class, students will be introduced to the description of nomenclature, structural formulas, and reactions of organic compounds. Organic chemistry will include laboratory work, demonstrations, discussion and lecture

Textbook: Introduction to Organic Chemistry

Required Resources:

none

“Limited Choice” Resources: (students will be asked to choose at least one title from this list)

none

Student Choice:

Will student be asked to choose additional reading material from the classroom or school library?

No

Essential Questions:

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

Essential Learning Intentions:

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