

Canyon Crest Academy: Organic Chemistry

Level of Difficulty	Estimated Homework	Prerequisites
<input type="checkbox"/> Moderate <input type="checkbox"/> Difficult <input checked="" type="checkbox"/> Very Difficult	90-120 minutes	<u>District</u> N/A <u>Department</u> Completion of AP Chemistry with B grade or better

Course Description

Students who enroll in this course should have a solid foundation in college level Chemistry, achieved through the successful completion of both college preparatory and Advanced Placement Chemistry. Organic Chemistry is geared toward students planning a career in the sciences, particularly pre-medicine. The course is extremely rigorous and is taught like a second-year college chemistry course.

Organic Chemistry involves the study of patterns of reactivity and reaction mechanisms for carbon-containing compounds. Students who successfully complete this course will leave CCA able to: understand the relationship between the chemical structure and functionality of carbon-containing compounds; identify typical organic reactions and analyze the processes through the kinetic and thermodynamic favorability of various mechanisms; explore the syntheses of common organic compounds, both in theory and in practice; interpret the results of spectroscopic analyses and use these methods to assist in structure/functional group determination

Each unit of study will incorporate themes of systematic nomenclature, properties based on functionalities, typical reactions and reaction mechanisms, and common applications. This course will also contain a laboratory component, where students will perform a host of classic experiments and will communicate their findings via the collection of data in a laboratory notebook and the writing of formal reports.

Grading

The grading system is based on weighted percentages. Each assignment will have a point value and be weighed according to the category it falls under. Individual teachers may make slight modifications on the weighted percentages.

Homework/Classwork: 10%

Lab Work: 30%

Assessments: 60%

Syllabus Link

<http://teachers.sduhsd.net/ccscience/>

Supplemental Information

10 credits

Meets UC/CSU subject area "d" requirement

Counts toward ELECTIVE credits for high school graduation