

Course Title: Chemistry

Teacher: Robert Banks

Hour 3 - Semester 1 - 2021/22

0.5 Science Credit

[Click here to hear Robert talk about this course!](#)

COURSE INFORMATION:

Course Description: Chemistry is a two semester class series intended for students new to high school science courses. Quarter one focuses on the structure of atoms and the nature of chemical bonding. Quarter two examines the main groups of atoms, and the meaning behind the structure of the Periodic Table of the Elements. Quarter three examines the fundamentals of organic chemistry and the properties of complex polymers. Fourth quarter examines the mathematical relationships in chemical reactions and how ideal gases interact in these reactions. A lot of time is spent on learning about and using basic study skills, developing increasing responsibility and independence, and classroom discussion skills. Credit is earned using the District expectations and assessment occurs via written assessments, in-class work, and completion of laboratory write-ups. This is not an appropriate course series for experienced science students and it is recommended that such students seek alternative science courses offered at other times or by other instructors.

Prerequisites: Algebra I concurrent or previously taken is also highly recommended.

Method of Instruction: A blend of direct and flipped instruction supported by discussion and interactive lecture.

Course Objectives (standards): HS PS-1, HS PS1-2, HS PS1-3, HS PS1-4, HS PS1-7, HS PS2-6, HS PS3-3

Graduate Vision Competencies: Positive risk taking, personal responsibility, and creative & critical thinking.