Oroville Union High School District
Course Description

Course Title:	Chemistry in the Earth System
Aeries Course #:	301A
CBEDS #:	9332
Course Length:	One Year
Type of Credit(s):	Science
A-G Approved:	Pending
Approval Date:	Pending
Integrated (Academic & CTE):	No
2+2 Credit:	No
Dual Enrollment:	No
District Certification:	No
Prerequisite:	Biology of the Living Earth
Includes Hands-on Lab Activities:	Yes
Grade Level(s):	10-12
Primary Textbook(s):	HMH: Chemistry in the Earth System (Pending)
Supplemental Materials:	ADI Chemistry, POGIL, Biozone: Chemistry in the Earth System (Pending)
Digital Resources:	pHet, Concord Consortium (Pending)

Course Overview

In this course, students will explore chemistry and earth science concepts from a phenomenon-based approach. This is a NGSS course that will incorporate inquiry-based labs and the performance expectations of ‘Chemistry’ and ‘Earth and Space Science’ to deepen student understanding of the role of chemical properties and processes in driving the Earth system. Students will connect crosscutting concepts and utilize science and engineering practices to explain natural phenomena. Instructional segments will explore combustion, heat and energy transfer, atomic structure and interactions, chemical reactions, the chemistry of climate change, and ocean acidification.

Board Approval Date: December 18, 2019_

Please attach a copy of all standards that apply to this course.

Physical Sciences	Life Sciences	Earth and Space Sciences	Engineering, Technology, and Applications of Science
HS-PS1-1 HS-PS1-2 HS-PS1-3 HS-PS1-4 HS-PS1-5 HS-PS1-6 HS-PS1-7 HS-PS2-4 HS-PS3-1 HS-PS3-2 HS-PS3-4 HS-PS3-5	N/A	HS-ESS2-2 HS-ESS2-3 HS-ESS2-4 HS-ESS2-6 HS-ESS3-2 HS-ESS3-5 HS-ESS3-6	HS-ETS1-4