

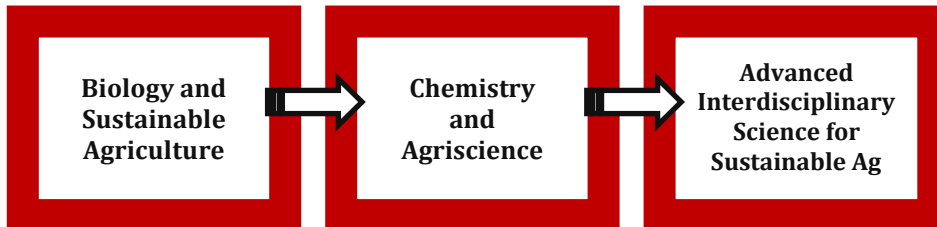
Agriculture and Natural Resources: Sustainable Agriculture Science



CHICO HIGH SCHOOL

2023—2024

Course Sequence



Course Descriptions

Biology and Sustainable Agriculture (Introductory) *A-G “D” Life Science
This year-long course is designed for the **college bound** student and **integrates biological science** into the practice of **sustainable agriculture**. The course is organized into four major sections, each with a guiding question: **What is sustainable agriculture? How does sustainable agriculture fit into our environment? What molecular biology principles guide sustainable agriculture? How do we make decisions to maximize sustainable agricultural practices within a functioning ecosystem?** The course culminates with the development of a **sustainable farm model** and **portfolio** of supporting student **research**. Throughout the course, students will participate in **FFA activities** and will develop and maintain an ongoing **Supervised Agricultural Experience**.

Chemistry and Agriscience (Concentrator) *A-G “D” Chemistry
This is a year-long **laboratory science** course designed for the **college bound** student. Students **explore** the physical and chemical **nature of soil** and **examine** properties of **soil and land** and their connections to **plant production**. Students **design an agriscience research program** to be conducted throughout the first semester. Later, students **develop and present a capstone soil management plan for agricultural producers**. Throughout the course, students will participate in **FFA activities** and will develop and maintain an ongoing **Supervised Agricultural Experience**.

Advanced Interdisciplinary Science for Sustainable Agriculture (Capstone) *Honors A-G “D” Science
This year-long **laboratory science** course, designed for the **college bound** student, **integrates laboratory science** and **research** with **agricultural management principles**. Students **design experiments to solve agricultural management issues currently facing the industry**. By connecting the products created in this class with **industry activities**, students experience **real-world problem-based learning** and implement **skills demanded by colleges and careers**. The course culminates with an **agriscience experimental research project** related to the **agricultural issue** they identified in the fall. Final projects are eligible for **Career Development Event competitions** at FFA events. Throughout the course, students will participate in **FFA activities** and will develop and maintain an ongoing **Supervised Agricultural Experience**.



LOCAL POST-SECONDARY OPTIONS:

Butte College

- *AS (Transfer) in Ag Plant Science*
- *AS in Agriculture Science*
- *AS in Agricultural Business*

CSU, Chico

- *BS in Agriculture Business*
- *BS in Animal Science*
- *BS in Agriculture*
 - *Option in Crops, Horticulture, & Land Resource Management*
 - *Option in Ag Science & Education*

HIGHLIGHTED CAREERS:

- * Laboratory/Research Technician
- * Conservationist
- * Ecologist
- * Environmental Scientist
- * Agronomist/Plant Scientist
- * Agriculture Lawyer
- * Water Treatment Technician
- * Herd Manager
- * Game Warden

Contact:

Lindsay Swickard
lswickard@chicousd.org
Elva Anderson
eanderson@chicousd.org

Career and Technical
Student Organization:

