



GEO Academy

Agri-science Sector

- Agriculture is California's most important economic industry, employing 2.5 million people in varied careers.
- Students gain the knowledge and skills to actively improve and impact their community and protect the environment through good sustainable practices.
- Students choosing a career in this industry sector are interested in the relationship between humans, the environment and natural resources

Benefits of Taking This Pathway

- Landscape Environmental Design fulfills the Fine Art requirement for UC A-G
- Seniors who meet the following requirements are eligible for a Career Pathways Cord at Graduation:
- Completion of a Pathway Program, with a B or better within the pathway.
 - Earn an overall GPA of 2.0

Potential College Majors

- Environmental Science
- Environmental Design
- Sustainable Agriculture and Food Systems
- Conservation Biology
- Environmental Engineering
- Environmental Studies
- Hydrology
- Sustainable Business
- Fish and Wildlife Management

Potential Careers

- Conservation Scientists
- Landscape Designers
- Landscape Architects
- Environmental Engineers
- Environmental Scientists
- City Planner
- Hydrologist
- Toxicologist

Site

- GHS

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Pathway Courses

Environmental Horticulture (GUHS)

Grades: 10 **Duration:** Year

HS Grad Req: Electives **US/CSU a-g:** G: Electives

Prerequisite: none

CTE Pathway (level): Geo Academy (introductory)

Course Description: Environmental Horticulture is a course focused on the science and art of cultivating plants for human and environmental benefit and integrates scientific study with hands-on outdoor learning. This course includes the study of biological classification and plant identification, plant reproduction, plant physiology, plant pathology and entomology, plant use and installation, soil structure and function, plant names and classification, nutrition value of plants, and applications of biotechnology.



Landscape and Environmental Design (GUHS)

Grades: 11 **Duration:** Year

HS Grad Req: Fine Art **US/CSU a-g:** F: Fine Art

Prerequisite: Environmental Horticulture

CTE Pathway (level): Geo Academy (concentrator)

Course Description: The purpose of this course is to introduce students to the field of landscape and environmental design. Projects range from community parks to the front and back yards of homes, from river habitat restoration to planning at the city scale. Students will develop an awareness of the interactive relationship between humans and how they shape their environment.



Agriculture Economics and Business (GUHS)

Grades: 12 **Duration:** Year

HS Grad Req: Economics **US/CSU a-g:** Elective

Prerequisite: Landscape Environment Design

CTE Pathway (level): Geo Academy (capstone)

Course Description: The course is designed for advanced study of agriculture business opportunities and economics for the college bound students with interest in agriculture. Through the course, the student will understand and apply basic economic principles as they relate to individual consumers, production agriculture, and agri-business management.



CA Natural Resources (GUHS)

Grades: 12 **Duration:** Year

HS Grad Req: Science **US/CSU a-g:** Science

Prerequisite: Landscape Environment Design

CTE Pathway (level): Geo Academy (capstone)

Course Description: Through scientific data collection, direct hands-on learning, and studying of the complex relationship of humans and their use of resources, students will understand how we are connected to the environment, use resources, and determine ways to better utilize the finite resources we have.

Continuing Pathways Post-Secondary

American River College:

- Environmental Conservation AS Degree
- Certificates in several areas

CSU Sacramento:

- Environmental Studies BS/BA Degree