

Agriculture Geoscience
Eureka High School
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Course: Agriculture Geoscience
(UC Approved)

I. COURSE DESCRIPTION

Agriculture Geoscience is a one-year, laboratory science course, designed for the college bound student with career interests in Agriculture. Using agriculture as a learning vehicle, the course emphasizes the principles and practices of Earth Science as a way to demonstrate the relevance of Earth Science in Agriculture to each student's life and environment. This class will utilize local and regional issues and concerns to stimulate problem-solving activities and to foster a sense of Earth stewardship by students in their communities. The class will establish an expanded learning environment, which incorporates fieldwork, technological access to data, and traditional classroom and laboratory activities.

III. COURSE FORMAT

- Discussion
- Demonstration
- Lecture
- Examinations
- Reading and Writing Assignments
- Guest speakers
- Science laboratory experience
- Field research projects
- Verbal and written communication exercises
- Leadership development activities

IV. COURSE OUTLINE

- A. Agriscience in the Information Age**
1. California Agriculture
 2. Professional Career Opportunities in Agriscience
 3. Supervised Agriscience Experience
 4. Leadership Development in Agriscience
- B. Earth's Materials**
1. Introduction to Earth Science
 2. Minerals
 3. Rocks
 4. Earth's Resources
- C. Sculpting Earth's Surface**
1. Weathering, Soil, Mass Movement
 2. Running Water and Groundwater
 3. Glaciers, Deserts, and Wind
- D. Forces Within**
1. Earthquakes and Earth's Interior
 2. Plate Tectonics
 3. Volcanoes and Other Igneous Activity
 4. Mountain Building
- E. Historical Geology**
1. Geologic Time
 2. Earth's History
 3. California's Resources and Natural Hazards

F. Oceanography

1. The Ocean Floor
2. Ocean Water and Ocean Life
3. The Dynamic Ocean

G. Meteorology

1. Atmosphere: Structure and Temperature
2. Moisture, Clouds and Precipitation
3. Air Pressure and Wind
4. Weather Patterns and Severe Storms
5. Climate

H. Astronomy

1. Origin of Modern Astronomy
2. Touring our Solar System
3. Studying the Sun
4. Beyond our Solar System

I. FFA Leadership, Critical Thinking & Interpersonal Skill Development

1. Aims and Purposes; History and Background
2. FFA Leadership Opportunities
3. FFA Contests and Judging Activities
4. FFA Record Keeping of SAE Project

IV. ASSESSMENT METHODS

- A. Tests – including teacher made and standardized tests developed by authors.
- B. Evaluation of class assignments.
- C. Classroom activities.
- D. Laboratory research investigations – weekly.
- E. Homework & Reading assignments.
- F. Research Paper.

EXPECTATIONS:

1. Students must bring all materials to class including a notebook and pen or pencil I will be providing you with lab supplies and equipment that you will pick up in order to complete lab assignments.
2. Students must abide by all school and classroom rules and procedures, failure to do so will result in a referral and loss of daily participation points. Presentations, lab reports and written assignments will be passed through Turnitin to check for plagiarism.
3. In order to participate in FFA activities, students must have at least a 2.0 GPA in their ag classes. To exhibit animals at the fair, students must have a 2.0 GPA. Please see the FFA Code of Ethics.

MATERIALS:

- computer access (please let me know if you need internet or a chromebook and we can check one out to you)
- 1.5-2 inch, 3 ring binder with a clear view cover
- Pencils
- Pens
- Lined Paper
- Calculator
- Ruler
- Highlighter
- Homework and Assignments

Fall and Spring Ag Project:

In order to receive a passing grade in Agriculture Earth Science in the fall semester you MUST complete a Fall project and in order to receive a passing grade in the spring semester you must complete a Spring Ag Project. It may consist of a research project in the Fall and an SAE agriculture project in the spring. These must be completed to receive a passing grade.

Grading Policy

Grades are determined based upon points earned in the following areas:

- Daily Evaluation (class participation, prepared for class, behavior, etc)
- Assignments (classroom, labs, homework, projects, notebook.)
- Evaluations (tests and quizzes)
- Agriscience Project & Ag Project (MUST DO TO PASS)
- FFA Activities and SAE Project 10%

Daily Participation: Students will earn points a day for being prepared and on task, following directions and acceptable behavior. Students lose these points for being tardy, not being prepared, not following directions, not being on task and unacceptable behavior. Students who are absent will receive a "0" on their daily evaluation score.

FFA Activities and SAE Project: In order to receive the full 10% you must attend 2 FFA events, as established by the instructor, per quarter. If you have an SAE project and keep an accurate record book, you may count that as your FFA events.

Grades are based on these percentages:

90-100% A	79-70% C	59-45% F
89-80% B	69-60% D	44 – 0% No Mark

Make up Work

- Make up work will be available for EXCUSED absences ONLY.
- The student is responsible for obtaining make-up work on the day he/she returns to school.
- The student has the number of days absent to turn in make up work.
- Unless prior clearance, unexcused absences cannot be made up

Photo Clearance

- The Eureka High School Agriculture Department and FFA would like permission to use photographs (taken by FFA members, professional photographers, or provided by the student) of your child in various capacities; bulletin boards, FFA newsletters, community presentations, staff training, recruitments, end of the year slide shows, the chapter website, etc. Please let me know if this is unacceptable in any way.
- You may change your mind at any time by rescinding your permission in writing.

IMPORTANT LINKS:

Agriculture Experience Tracker to track your ongoing Supervised Agriculture Experience Project

<https://www.theaet.com/>

Eureka Ag Department Google Site

<https://sites.google.com/eurekacityschools.org/eurekahighschoolagriculturedep/home?authuser=0>

California FFA

<https://www.calaged.org/>

I have read and fully understand the expectations, rules, grading procedures, and make up regulations for the Eureka High School Agriculture Department. Both parent/guardian and student should read this together and if you have any questions at all, please contact Ms. Sarvinski at sarvinskia@eurekacityschools.org