



CLASSROOM

Sample Outline of Courses

I. Entry Level High School Diploma

9th Grade:

English I
Freshman Requirement
Math 1
Ag Science 1: Ag Earth
Physical Education
Elective –
Elective –

10th Grade:

English II
World History
Math 2
Ag Sci. 2: Ag Biology
Physical Education
Elective - Ag. Science II
Elective –

11th Grade:

English III
U.S. History
Phys. Ed./Waiver
Math 3
Elective-Ag. Science III
Elective-
Elective –

12th Grade:

English IV
Amer. Gov/Econ
Phys. Ed/Waiver
Elective - Accounting
Elective - Ag. Science IV
Elective -
Elective –

II. Tech Prep-Trade/Technical School - JC

9th Grade:

English I
Freshman Requirement
Math 1
Ag Science 1: Ag Earth
Physical Education
Elective –
Elective –

10th Grade:

English II
World History
Math 2
Ag Sci. 2: Ag Biology
Physical Education
Elective - Ag. Science II
Elective –

11th Grade:

English III
U.S. History
Phys. Ed./Waiver
Math 3
Elective-Ag. Science III
Elective -
Elective –

12th Grade:

English IV
Amer. Gov/Econ
Phys. Ed/Waiver
Elective - Ag Science IV
Elective -
Elective -
Elective –

III. CSU or Private Schools

9th Grade:

English I
Freshman Requirement
Math 1
Ag Science 1: Ag Earth
Physical Education
Elective – Floral Design
Elective – Spanish 1

10th Grade:

English II
World History
Math 2
Ag Sci. 2: Ag Biology
Physical Education
Elective –Ag Science II
Elective – Spanish 2

11th Grade:

English III
U.S. History
Phys. Ed./Waiver
Math 3
Elective- Chemistry
Elective - Ag. Science III
Elective –Spanish 3

12th Grade:

English IV
Amer. Gov/Econ
Phys. Ed/Waiver
Elective – Trig/Calculus
Elective - Ag Science IV
Elective –
Elective –

IV. UC or Private Schools

9th Grade:

English I
Freshman Requirement
Math 1
Ag Science 1: Ag Earth
Physical Education
Elective - Spanish I
Elective –Floral Design

10th Grade:

English II
World History
Math 2
Ag Sci. 2: Ag Biology
Physical Education
Elective- Spanish 2
Elective- Advanced Floral 1

11th Grade:

English III
U.S. History
Phys. Ed./Waiver
Math 3
Elective- Chemistry
Elective- Spanish 3
Elective- Ag. Science III

12th Grade:

English IV
Amer. Gov/Econ
Phys. Ed/Waiver
Elective-Trig/Calculus
Elective-Visual/Per. Art
Elective-Physics, Lang IV
Elective- Ag. Science IV

Ag Science 1, 2, 3, & 4 are UC/CSU life science lab “D” approved. Floriculture meets the Fine Arts requirement for graduation and “F” fine arts a-g credit.

This is only a sample of possible class choices. Other classes may be substituted for most of these listed here.

Course Pathway Offerings

Bret Harte High School

Agriscience

Agriculture Science 1: Ag Earth

This course prepares students for a career in agriculture science by teaching them about plant and soil science. Topics discussed in this course include taxonomy, origins, structure, anatomy, and growth techniques and science of plants. The course also covers soil science including soil structure, classifications, fertility, chemistry, and conservation. Meets UC/CSU Requirement "g" Elective Physical Science.

Agriculture Science 2: Ag Biology

Ag Biology is a one year, laboratory science course, designed for the college-bound student with career interests in agriculture. This course emphasizes the life functions and interrelationships of plants and animals, focusing on growth and reproduction, genetics, nutrition, health and disease and the ecological relationships among plants, animals and humans. Students will be involved in "hands-on" agriculture activities and projects. Participation in FFA activities is an integral part of this course. Meets UC/CSU Requirement "d" – Lab Life Science.

Agriculture Science 3- Animal Science

Meets UC/CSU Requirement "d" – Lab Life Science. Designed for 3rd year Ag students. Emphasis on public speaking, feeds and feeding livestock, animal nutrition, anatomy and physiology of livestock, economic impact, plant, animals and their management, animal breeding & genetics, animal phenotypic selection & evaluation, animal health and animal research presentation. Course concludes with career planning and assistance in college choice, entrance preparation and scholarship availability. Membership in the FFA is an integral part of the class and is required by the State Department of Education, but participation in the FFA will be scored as extra credit. THE SUPERVISED AGRICULTURAL EXPERIENCE is required and considered part of the course grade.

Agriculture Science 4- Vet Science

Meets UC/CSU Requirement "d" – Lab Life Science. Designed for 4th year Ag students. Emphasis on public speaking, livestock genetics, animal sanitation, animal breeding, anatomy & physiology, animal nutrition, infectious diseases, principles of surgery, and pharmacology. Membership in the FFA is an integral part of the class and is required by the State Department of Education, but participation in the FFA will be scored as extra credit. THE SUPERVISED AGRICULTURAL EXPERIENCE is required and considered part of the course grade. Course concludes with continued career planning and assistance in college choice, entrance preparation and scholarship availability.

Floral/Horticulture

The Art History of Floral Design 1

Meets CSU/UC requirement 'f'; Fine Arts. This course provides an introduction to artistic and creative perception through a series of floral design projects. Subjects include, but are not limited to, introduction to art, historical contributions and cultural dimensions, aesthetic valuing and making judgments of individual works of art, elements of design, principles of design, creative expression through original works of art, and applications learned in visual art. Students will construct floral designs that are affected by society, history, culture, politics, and economic influence. Students will conclude the course by using their creative expression through wedding consultations and wedding planning. Membership and participation in the FFA are an integral part of the class and will be scored as extra credit.

The Art History of Floral Design 2

Meets CSU/UC requirement 'f'; Fine Arts This course will emphasize developing entry-level skills necessary for employment in the floral industry. Subjects include, but are not limited to, principles of design, creative expression through original works of art, elements of design, individual flower/foilage species care & maintenance, event planning (weddings, parties, events, etc.), holiday floral sales and floral shop management & accounting. Membership and participation in the FFA are an integral part of the class and will be scored as extra credit.

The Art History of Floral Design 3

This course will emphasize continuing to develop entry-level skills necessary for employment in the floral industry. Subjects include, but are not limited to, principles of design, elements of color, creative expression through original works of art, elements of design, individual flower/foilage species care, maintenance & identification, event planning (weddings, parties, events, etc.), holiday floral sales and floral shop management & accounting. Students will focus on European floral style influences and begin developing gluing techniques. Membership and participation in the FFA are an integral part of the class and will be scored as extra credit.

The Art History of Floral Design 4

This course will emphasize continuing to develop entry-level skills necessary for employment in the floral industry. Subjects include, but are not limited to, principles of design, elements of color, creative expression through original works of art, elements of design, individual flower/foilage species care, maintenance & identification, event planning (weddings, parties, events, etc.), holiday floral sales and floral shop management & accounting. Students will focus on Art Nouveau, Free-Form Expression and Art Deco floral style influences and continue developing gluing techniques. Membership and participation in the FFA are an integral part of the class and will be scored as extra credit.

Agriculture Mechanics

Agricultural Mechanics 1

Emphasis on the development of written and oral communication, record keeping, career opportunities, solid working skills and shop safety procedures. Academic and practical units in Ag shop include, but are not limited to, Drafting and Blueprint Concepts, Tool Identification, Woodworking, Plumbing, Electrical, Oxyacetylene Welding (O.A.W.), and Shielded Metal Arc Welding (S.M.W). Exhibition of class project required. Membership in the FFA is an integral part of the class, but participation in the FFA will be scored as extra credit. Score of 100% on safety exam, instructor and parent approval to use and work around power equipment.

Agricultural Mechanics 2

Emphasis on the continued development of written and oral communication, record keeping, career opportunities, solid working skills, and shop safety procedures. Academic and practical units in Agricultural Construction include, but are not limited to, Intermediate Measurement (including intermediate fraction manipulation, intermediate decimal conversion, and measuring in 1/64 scale, Intermediate Digital (CAD) and Conventional Drafting (intermediate geometric figures), Intermediate Blueprint Reading (Introduction to Blueprint Reading for Welders, Small Gas Engine Technology, Introduction to Concrete and Masonry, Introduction to Small Agriculture Structures (wood and metal), Introduction to Plasma, Carbon Arc, and Fuel Gas Cutting, Intermediate S.M.A.W., (introduction to grooved joints and horizontal and vertical welding processes). Membership in the FFA is an integral part of the class, but participation in the FFA will be scored as extra credit. A score of 100% on all safety exams plus instructor and guardian approval to operate and work around power equipment is required.

Agricultural Mechanics 3

Emphasis on the continued development of written and oral communication, record keeping, career opportunities, solid working skills, and shop safety procedures. Academic and practical units in Agricultural Construction 2 includes, but is not limited to, Advanced Measurement (including Unit Factoring, Solving for "X", Construction Equations, and measuring in 1/1,000 scale), Advanced Digital (C.A.D.) and Advanced Drafting, Advanced Blueprint Reading (Blueprint Reading for welders and fabricators), Advanced S.M.A.W. (overhead welding, high carbon welding, abrasion resistant welding, and precision welding processes), Introduction to G.M.A.W., Introduction to G.T.A.W., and Introduction to Computer Controlled Welding and Cutting Processes. A score of 100% on any safety exams plus instructor and guardian approval to operate and work around power equipment is required. Membership in the FFA is an integral part of the class, but participation in the FFA will be scored as extra credit.

Agricultural Mechanics 4

Emphasis on the continued development of written and oral communication, record keeping, career opportunities, solid working skills, and Shop and Science Center safety procedures. Academic and practical units in Agricultural Construction 3 includes, but is not limited to, Advanced Measurement (including Unit Factoring, Solving for "X", Construction Equations, and measuring in 1/1,000 scale), Advanced Digital (C.A.D.) and Advanced Drafting, Beginning Industrial Blueprint Reading, Conventional and Laser Structural and Land Surveying, Diesel Engine Technology, Heavy Equipment Maintenance and Operation (includes power transmission, hydraulic and pneumatic principles, and an introduction to commercial vehicle selection, maintenance, and operation), Introduction to Water and Wastewater Management and Environmental Considerations, and an Introduction to Alternative Energy Considerations for Farm and Industrial use. A score of 100% on all safety exams plus instructor and guardian approval to operate and work around power equipment, including trucks and tractors, is required. Membership in the FFA is an integral part of the class, but participation in the FFA will be scored as extra credit.

Agriculture Scholarships

| Scholarship Name: | # | Amount | Major | Criteria |
|----------------------------------|--------|-----------|-----------------------|---|
| BH FFA Boosters | Varies | Varies | Agriculture preferred | 12 units required |
| BH FFA Chapter | Varies | Varies | Agriculture preferred | 12 units required |
| Tamara Dragmanovich | 1 | Varies | Agriculture | Consideration will be given to people with sheep backgrounds. |
| Calaveras 4-H Council | 1 | \$500.00 | | Must be in 4-H all 4 years |
| Calaveras 4-H Wranglers | 1 | \$500.00 | | 2.0 GPA or better; must be a Member of 4-H for Jr/Sr year. Must submit record book for both years; be an active member and Teen leader in a project. Awarded after submitting proof enrollment of 12 units. |
| Calaveras Co. Cattlemen's Assoc. | 1 | \$500.00 | Any | 2.75 GPA ½ awarded 1 st Semester ½ awarded 2 nd semester |
| Calaveras Co. Farm Bureau | 1 | \$300.00 | Ag related | Awarded upon completion 1 st Semester & enrollment of 2 nd Semester. Must be used the year Following H.S. graduation |
| Calaveras Co. Garden Club | 1 | \$1000.00 | Floriculture/Ag | Awarded at completion of 1 st Conservation or semester and 3.0 GPA Biology |
| Calaveras Co. Jr. Livestock | Varies | \$500.00 | Any | Must have sold animal at Calaveras Co. Jr. Livestock Auction during elementary or High school years. (List dates |

| | | | | |
|--|---|--------------|-----------------------|---|
| | | | | Sold and species) ½ awarded 1 st semester ½ awarded 2 nd semester After proof of enrollment. Must Be 1 year Cal. Co. resident |
| Calaveras Saddle Club | 2 | \$250.00 | Agriculture | Awarded after 1 st semester and Proof of enrollment. Must carry 12 units and employment or Carry a full load. |
| Calaveras Fly Fishers | 1 | \$500.00 | Biology, Forestry | Awarded at completion of 1 st Resource Conservation semester and 3.0 GPA |
| Calaveras Tuolumne Cattlewomen Scholarship | 1 | \$500.00 | Ag related | |
| Calaveras Wine Association | 1 | \$500.00 | Enology, Viticulture, | Prefer students interested in wine marketing, business making, wine marketing, and wine. Growing business etc. ½ Awarded 1 st semester upon proof of registration; ½ awarded 2 nd semester. |
| Nancy Cundiff 4-H Scholarship | 1 | Varies | Any | Poultry in 4-H for at least 1 year |
| Outstanding Livestock Exhibitor | 2 | 2,000, 1,000 | Any | |

Additional scholarships available on-line through FFA:

California State Agriculture & FFA Scholarships

365 National FFA Scholarships

www.ffa.org

www.calaged.org