

HBUHSD Course Descriptions

Career & Technical Education (CTE)

Agriculture

Introduction

Agriculture provides the student with opportunities to develop an understanding of California's largest industry. California is the foremost agricultural state in the United States and offers many employment opportunities. Student learning is developed through classroom and outdoor activities where the student experiences agriculture with a "hands-on" approach.

Possible Career Objectives for the Students with Art Training

Advertising/Marketing Manager
Agricultural Appraiser
Agricultural Computer Programmer
Agricultural Consultant
Agricultural Instructor
Animal Geneticist/Reproductive
Animal Nutritionist

Fair Manager
Fish and Wildlife Management
Floral Designer
Food Processing
Food Product Developer
Golf Course Sup't Specialist
Greenhouse/Nursery Manager
Landscape Architecture

Meat Buyer
Pest Control Advisor
Produce Buyer
Soil Scientist
Veterinarian
Veterinary Technician
Wildlife Manager

Guidelines

Huntington Beach Union High School District programs, activities, and practices shall be free from discrimination based on actual or perceived race, color, ancestry, national origin, ethnic group identification, age, religion, marital or parental status, physical or mental disability, sex, sexual orientation, gender, gender identity, or gender expression; or on the basis of a person's association with a person or group with one or more of these actual or perceived characteristics.

Course Offerings

Elective - Agriculture - Career & Technical Education (CTE)

One year (two semesters), in addition to those required in "a-f" above. All courses must be listed under "a-f" above with the exception of courses marked with a blue diamond (◆) in Mathematics, Language Other than English, and VPA; plus the following:

Crs Code 1st sem/ 2nd sem	Course Title	Honors Type	Grade	Category	Prerequisite/ Recommended	HB HS	W HS	M HS	FV HS	E HS	OV HS	Vv HS	C HS
59A	Intro to Agriculture		9	CTE			W						
59B	Agricultural Career Development		9	CTE									
59E	Agricultural Mechanics		11-12	CTE			W						
59F	Veterinary Science		11-12	CTE			W						
59J	Floriculture		11-12	VPA			W						
59O 59P	Agricultural Biology A / B		10	Life Science	Algebra I or concurrent enrollment in Algebra I		W						
59V 59W	Applied Earth and Physical Science A / B			Physical Science			W						

Graduation Credit:

HS - fulfills high school graduation requirement

CSU - fulfills a-g requirement for CA State University/UC - fulfills a-g requirements for University of CA

The following courses meet requirements for admission to the University of California.

★ denotes courses that have been approved for extra honors credit: a=5, b=4, c=3.

◆ denotes courses that cannot be used to fulfill the "g" elective requirement. The 'category' column represents the specific subject requirement fulfilled by the course.

HBHS - Huntington Beach High School
WHS - Westminster High School
MHS - Marina High School
FVHS - Fountain Valley High School

EHS- Edison High School
OVHS - Ocean View High School
VvHS - Valley Vista High School
CHS - Coast High School

Intro to Agriculture

Course Code	Length	Grade	Prerequisite	Available
59A	Year	9	None	WHS

Credit: HS

Course description

This is an introductory course in agriculture. Students will study local, state, and national agriculture. FFA will be introduced and explored through classroom research, discussion, and participation in various leadership activities in and out of the classroom. An introduction to record keeping will be presented through the use of the FFA Record Book. Parliamentary Procedure and public speaking skills will be taught. Students will learn basic principles of plant and animal sciences. FFA projects will be encouraged at this level. Careers and employment in agriculture will be an ongoing topic throughout the course. This course is recommended for those students interested in ongoing agriculture projects such as livestock projects for the Orange County Fair or plant related projects.

Agricultural Career Development

Course Code	Length	Grade	Prerequisite	Available
59B	Year	9	None	WHS

Credit: HS

Course description

This is a one-semester introductory course in agriculture. Students will study local, state, and national agriculture. FFA will be introduced and explored through classroom research, discussion, and participation in various leadership activities in and out of the classroom. An introduction to record keeping will be presented through the use of the FFA Record Book. Parliamentary Procedure and public speaking skills will be taught. Students will learn basic principles of plant and animal sciences. FFA projects will be encouraged at this level. Careers and employment in agriculture will be an ongoing topic throughout the course.

Agricultural Mechanics

Course Code	Length	Grade	Prerequisite	Available
59E	Year	10-12	None	WHS

Credit: HS

Course description

Agriculture Mechanics allows students to further develop agricultural mechanics technology knowledge and skills. This hands-on course will cover units of study including: engines and power systems, metal fabrication and welding, and agricultural machinery maintenance and repair. Other components of this course includes the planning, design, and completion of an agricultural mechanics project – ranging from tractor restoration, woodworking projects, metal projects, or any other instructor approved project. Classroom and laboratory activities will be supplemented through supervised agricultural experiences and FFA activities.

Veterinary Science

Course Code	Length	Grade	Prerequisite	Available
59F	Year	11-12	None	WHS, VvHS

Credit: HS, CSU/UC (g)

Course description

This course focuses on the science behind the care and management of agricultural animal species. Students will study the classification and naming of key livestock species, such as beef, goats, sheep and swine as well as the major horse, dairy, and chicken breeds used in agriculture and in everyday life. Basic anatomy, reproduction, nutrition, healthcare, and related careers will be examined throughout the course. Students will also become familiar with animal-based industries in Orange County and California. The major forms of assessment will be lab exercises and projects.

Floriculture

Course Code	Length	Grade	Prerequisite	Available
59J			None	WHS

Credit: HS

Course description

Floriculture is a two-semester course in which students develop a general knowledge of the modern floriculture industry and the elements of design and color related to floral works. Emphasis is placed on aesthetic expression as well as technical components. Practical "learn by doing" skills are emphasized. The culture and care of flowering plants, flower identification, floral design history, theory and practice flower shop management are also covered. Students are encouraged to become active F.F.A. members and will develop an S.O.E.P (Supervised Occupational Experience Program).

Agricultural Biology A / B

Course Code	Length	Grade	Prerequisite	Available
59O / 59P	Year	9	Algebra I or concurrent in Algebra I	WHS

Credit: HS, CSU/UC (d)

Course description

Agricultural Biology is a laboratory science course designed for the college-bound student. The course emphasizes detailed knowledge of the biological principles of the following areas: molecular and cellular aspects of living things, structure and function of agricultural plants and animals, genetics, physiology, plant and animal diversity and principles of classification, ecological relationships, and animal physiology.

Applied Earth and Physical Science A / B

Course Code	Length	Grade	Prerequisite	Available
59V / 59W	Year	9	None	WHS

Credit: HS, CSU/UC (g)

Course description

Applied Earth and Physical Science is a course designed to develop a scientific viewpoint in students and provide each student with a background in earth and physical science as it relates to agriculture. Students are expected to perform in both lab and lecture situations and to be able to work basic algebraic equations. This course meets the physical science requirement. This course is part of a series of courses to prepare the student for college level entry into the various disciplines of agricultural science. During the year, students will study the earth and physical sciences, which will include mechanics, heat, electricity, magnetism, waves, atomic structure, chemistry, earth science, and astronomy. Homework will include reading, writing, lab reports and field studies.