

Agricultural Science Pathway

The Agricultural Science pathway exposes students to a variety of career paths in agriculture, horticulture, animal science, and natural resources. Students have the opportunity to participate in the National FFA Organization, which is the largest youth leadership organization in the United States. This program will enhance students' resumes and scholarship applications, as well as build their skill sets and help them make connections for future employment.



Pathway Endorsement Offerings for Agricultural Science:**2.0 Credits Required for Graduation Cord****3.0 Credits Required for Completer Medal**

Required Classes	Grade	Credits	College Credits
**Intro to Animal Science (sem 1)	9-12	0.5	ANS 121, 4 credits
**Intro to Veterinary Science (sem 2)	9-12	0.5	(part of Animal Sci)
**Intro to Horticulture A	9-12	0.5	PCC LAT 106 (4 credits)
**Intro to Horticulture B	9-12	0.5	LAT 109 (3 credits),
**Courses are dual college credit and require a college level of work completion and skill.			

Select at least **one credit** of the following courses in addition to the required classes for Completer Medal

Intro to Agriculture	9-12	0.5	AEC 121, 1 credit
Intro to Forestry (no longer offered)	9-12	0.5	
Exploring Plants	9-12	0.5	
World of Animals	9-12	0.5	
Fisheries & Wildlife	9-12	0.5	
Floral Design	9-12	0.5	
Adv Floral Design	10-12	0.5	
Companion Animals	9-12	0.5	
Agricultural Occupations	10-12	0.5	
Leadership Skills for Ag.	10-12	0.5	

Careers in Agricultural Science

Agricultural Consultant Farm Manager Fisheries Management Plant Breeder/Geneticist Rural Practice Surveyor Soil Scientist Agricultural Engineer Agricultural Food Scientist	Agricultural Inspector Agricultural Business Manager Agricultural Specialist Agronomist Ecologist Arborist Forestry Management Forester
--	--

Nutrient Management Specialist	Wood Products Park Services
--------------------------------	--------------------------------

Agricultural Science Courses

Intro to Agriculture

Credit: 0.5 Credit	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18001
Prerequisite: None	College Credit: Umpqua Community College

Intro to Agriculture exposes students to numerous branches of the agricultural world. There are many opportunities for students to get involved in the National FFA Organization. Record keeping, team building, public speaking, and leadership skills are applied to agriculture related topics.

Exploring Plants

Credit: 0.5 Credit	Credit Type: Applied Arts, Science
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18051
Prerequisite: None	College Credit: None

An introduction to plant life, parts and functions, processes, and products with a focus on agriculturally important crops in our local area and state. Students will also look at how plants impact the environment and community we live in.

Intro to Horticulture A/B

Credit: 1.0	Credit Type: Applied Arts, Science
Length: Year	Pathway: Agricultural Science
Grade: 9-12	Course #: 18052A/18052 B
Prerequisite: None	College Credit: PCC LAT 106 4 credits, 109 3 credits

Intro to Horticulture A introduces students to basic greenhouse management, plant parts and functions. Students explore the five main parts of the plant, how the environment impacts plant growth, how the greenhouse environment can manipulate plant growth, and the importance of soil for plant growth. This class is articulated with PCC LAT 106: Plant Anatomy and Physiology for 4 credits.

Intro to Horticulture B focuses on plant reproduction as well as managing and executing the annual FGHS Viking Plant Sale. Students experience the process of running a commercial greenhouse business while learning customer service and business management skills. This class is articulated with PCC LAT 109: Plant Propagation for 3 credits.

World of Animals

Credit: 0.5	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18149
Prerequisite: None	College Credit: None

A general introduction to a wide variety of animals from around the globe, while learning geography, various animal habitats, and facts about the animals themselves. Students will also look at how animals impact the environment and community we live in.

Fisheries & Wildlife

Credit: 0.5 Credit	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18501
Prerequisite: None	College Credit:

This course studies habitats and ecosystems for fish and wildlife species both native and non-native to our environment. This course will also feature forestry practices and the concerns over the use of our natural resources. Students will obtain knowledge in these areas through hands-on laboratory activities, classroom studies, field trips, and FFA career development events.

Intro to Animal Science

Credit: 0.5	Credit Type: Applied Arts, Non-Lab Science
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18101
Prerequisite: None	College Credit: Blue Mountain Comm College

Intro to Animal Science introduces the livestock industry and various species of large animal livestock. Includes livestock terminology, breeds, production systems, basic management practices, and animal products and by-products.

Intro to Veterinary Science

Credit: 0.5	Credit Type: Applied Arts, non-lab science
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18105
Prerequisite: Intro to Animal Science	College Credit: None

This class is an extension of Intro to Animal Science, and offered second semester after the completion of Intro to Animal Science. The course is designed to provide basic knowledge of career opportunities in animal related fields, and common livestock species production and management. Material is presented by lecture, visual aids and hands-on laboratory experience. Students need to enroll in Intro to Animal Science as well.

Companion Animals

Credit: 0.5	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 9-12	Course #: 18102
Prerequisite: Intro to Animal Science	College Credit: None

Companion Animals is the second semester of a year-long course in Animal Science studies. This course is an introduction to care and management of companion animals. Topics will include an understanding of common varieties of pets and their place within human cultures, domestication, breeding ethics, nutrition, management; and health care topics

Floral Design

Credit: 0.5	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science

Grade: 9-12	Course #: 12158
Prerequisite: None	College Credit: None
A course designed to develop skills in floriculture and the techniques used to develop and complete a variety of retail items normally sold in a retail florist business. The skills learned are necessary to gain and maintain employment in the retail florist industry.	

Advanced Floral Design

Credit: 1.0	Credit Type: Applied Arts
Length: Year	Pathway: Agricultural Science
Grade: 10-12	Course #: 12158ADV
Prerequisite: Floral Design, FFA Application	College Credit: None
Advanced Floral Design is designed to build on students' knowledge gained in beginning floral design. Advanced Floral Design will reinforce the use of taxonomy in identifying potted plants and fresh cut flowers. Emphasis will be placed on judging/critiquing potted plants and fresh cut flowers for the State FFA contest. Students will master the art of corsage, boutonniere, and cut flower arranging in both 2 dimensional and 3 dimensional forms and will learn and obtain the required skills in owning and operating a floral business. This class will arrange and sell all creations in the agriculture department to fully submerge themselves in business situations and work environment. Marketing and pricing strategies will be covered in order to enhance the floral business experience. Workplace skills and ethics will be covered in detail and work safety habits certificated. Instructor approval is required since there is independent lab work time. There is also a chance of a student certification.	

Leadership Skills for Agriculture

Credit: 0.5	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 10-12	Course #: 18203
Prerequisite: FFA Membership/Instructor Approval	College Credit: None
All of us are leaders; we just need the training and opportunity to develop the confidence and skills to make it possible. In this class, you will learn how to plan agriculture-related events and access resources you need. This class will help you with communication, organization, self-confidence, and how to work in a group. You will organize several agriculture-related activities and carry them out to completion. You will also work with school and community groups during this class.	
Offered as an independent study or in conjunction with another course.	

Agriculture Occupational Experience

Credit: 0.5	Credit Type: Applied Arts
Length: Semester	Pathway: Agricultural Science
Grade: 10-12	Course #: 18998
Prerequisite: One Ag. Class and FFA Membership/Instructor Approval	College Credit: None
Students who are employed in the agriculture industry or have a supervised agriculture experience in the FFA may earn credit for their job-related projects. Completing and documenting a minimum of 160 hours of after school experience determines credit. The hours can start in the summer (July) prior to the school year. The primary purpose of this program is to extend and complement in-school instruction and activities related to agriculture.	
Offered as an independent study.	