

# AGRICULTURE



The COS Agriculture Division believes in the value of providing a well rounded student experience and the importance of preparing students for industry through hands-on education. The Agriculture Division has areas of study to support local industries and to prepare a student for transfer to a 4-year degree program. Those study areas include:

- Agricultural Business Management (<https://catalog.cos.edu/areas-study/agricultural-business-management/>)
- Agriculture Technology (<https://catalog.cos.edu/areas-study/agricultural-technology/>) which focuses on Power Equipment (Mechanized Agriculture)
- Animal Science (<https://catalog.cos.edu/areas-study/animal-science/>) - including Equine Science (<https://www.cos.edu/en-us/academics/agriculture/equine-science/>), Dairy Science and the prep necessary for becoming a High School Agriculture teacher
- Food Safety Management (<https://www.cos.edu/en-us/academics/agriculture/food-safety-management/>)
- Ornamental Horticulture (<https://catalog.cos.edu/areas-study/ornamental-horticulture/>) - including Landscape Design (<https://catalog.cos.edu/areas-study/ornamental-horticulture/certificate-achievement-landscape-design/>) and Landscape Management (<https://catalog.cos.edu/areas-study/ornamental-horticulture/certificate-achievement-landscape-management/>)
- Plant Science (<https://catalog.cos.edu/areas-study/plant-science/>) - including preparation for Pest Control Advisor and courses in Irrigation
- Veterinary Assisting (<https://catalog.cos.edu/areas-study/veterinary-assisting/>)

The Division provides multiple study options including Certificates, Associate's Degrees, and Transfer Degrees. COS is committed to being your FIRST choice on your educational journey. The Agriculture Division stresses quality teaching through formal classroom lecture, engaging discussions, and hands-on laboratory activities at our 360-acre farm, horticulture laboratory, and animal science laboratories. The Agriculture Division has multiple student-led organizations, which offer opportunities to get involved and engaged outside of the classroom through field trips to local industry partners, regional competitions and other student leadership development events.

Agriculture Division webpage: c (<https://www.cos.edu/en-us/academics/agriculture/os.edu/ag>) (<https://www.cos.edu/en-us/academics/agriculture/>)

## Contact Information

### Agriculture Division Chair

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## Associate Degrees (including Transfer) and Certificates

- Agricultural Business Management (<https://catalog.cos.edu/areas-study/agricultural-business-management/#programtext>)
- A (<https://catalog.cos.edu/areas-study/agricultural-technology/#programtext>)griculture Technology (<https://catalog.cos.edu/areas-study/agricultural-technology/#programtext>) including Ag Power Equipment Technician (<https://catalog.cos.edu/areas-study/agricultural-technology/skill-certificate-agriculture-power-equipment-technician/>)
- Agriculture Irrigation Technician (<https://catalog.cos.edu/areas-study/agricultural-technology/skill-certificate-irrigation-construction-installation/>)through the Ag Irrigation Academy (<https://www.cos.edu/en-us/Agriculture/Pages/Agriculture-Irrigation.aspx>)
- Animal Science (<https://catalog.cos.edu/areas-study/animal-science/#programtext>) - including preparation for becoming a HS Ag Teacher
- Dairy Science (<https://catalog.cos.edu/areas-study/dairy-science/skill-certificate-dairy-science/>)
- Equine Science (<https://catalog.cos.edu/areas-study/animal-science/certificate-achievement-equine-science/>)
- Floral Technology (<https://catalog.cos.edu/areas-study/ornamental-horticulture/skill-certificate-floral-technology/>)
- Food Safety Management (<https://catalog.cos.edu/areas-study/agricultural-business-management/skill-certificate-food-safety-management/>)
- Ornamental Horticulture (<https://catalog.cos.edu/areas-study/ornamental-horticulture/#programtext>)
- Landscape Design (<https://catalog.cos.edu/areas-study/ornamental-horticulture/certificate-achievement-landscape-design/>)
- Landscape Management (<https://catalog.cos.edu/areas-study/ornamental-horticulture/certificate-achievement-landscape-management/>)
- Plant Science (<https://catalog.cos.edu/areas-study/plant-science/#programtext>) - including preparation for Pest Control Advisor
- Veterinary Assisting (<https://catalog.cos.edu/areas-study/veterinary-assisting/#programtext>)

Only those courses with an AG (Agriculture) Prefix are listed here. For all courses within the Ag Division [CLICK HERE \(https://catalog.cos.edu/areas-study/agriculture/#programtext\)](https://catalog.cos.edu/areas-study/agriculture/#programtext) OR for a complete list of all COS courses and descriptions visit: COURSES (<https://catalog.cos.edu/course-descriptions/>)

**AG 001 AG, Society, & the Environment****3unit(s)**

Hours: 3 Lecture/Discussion

The sociology of agriculture (Ag) is presented through examination of relationships between societies and their environments, economics and Ag. Emphasis is on analysis of agriculture's use of technology and the corresponding impact on the environment, economy, and society.

**AG 002 Environmental Conservation****3unit(s)**

Hours: 3 Lecture/Discussion

A study of the world's environment, including the study of food and fiber systems, ecology, populations, environmental pollution, bioterrorism, and conservation of natural resources. Students will participate in field tours to examine natural and altered habitats and threats to society and the environment.

**AG 003 Economic Entomology****3unit(s)**

Hours: 3 Lecture/Discussion Hours:

1 Lab

The study of the insects and mites of economic importance to agriculture, including morphology, taxonomy, identification, life cycles, hosts, habitat relationships, and control methods. Collection and labeling of specimens will be required. Laboratory required. Recommended for Pest Control Advisors' licensing. (C-ID AG-PS 144L)

**AG 004 Soil Science****3unit(s)**

Hours: 3 Lecture/Discussion Hours:

1 Lab

This is an agricultural science course that provides basic knowledge of the physical, chemical and biological properties of soil. It includes soil-forming factors, plant-soil-water relationships, soil pH and salinity, plant nutrition, fertilizers, and soil conservation.

**Advisory on Recommended Preparation:** PLSI 001 or equivalent college course with a minimum grade of C. (C-ID AG-PS128L)

**AG 107 Agriculture Education Orientation****3unit(s)**

Hours: 3 Lecture/Discussion Hours:

1 Lab

This course is an overview of Agriculture Education in California. Through class instruction and field experience, students will learn the principle components of teaching agriculture; develop academic and career plans; and observe a secondary agriculture classroom.

**Advisory on Recommended Preparation:** ENGL 261 or equivalent college course with a minimum grade of C or eligibility for ENGL 001 as determined by COS Placement Procedures (<https://catalog.cos.edu/placement-procedures/>); ENGL 001 may be taken concurrently.

**AG 110 Ag Leadership****3unit(s)**

Hours: 3 Lecture/Discussion Hours:

1 Lab

This course will build student leadership skills. Students will learn management and leadership skills, communication skills, critical thinking skills and project management skills. Students will have the opportunity to apply these skills through various leadership activities. These leadership opportunities may include, but are not limited to, leadership seminars, conferences, industry presentations, classroom presentations and agriculture ambassador programs at the local, regional and state level.

**AG 125 Principles of Pesticide Use****3unit(s)**

Hours: 3 Lecture/Discussion

Covers federal and California pesticide laws, safety, application equipment and types of pesticides. Includes basic information for use in preparation for state pesticide certification.

## Agriculture

Abee, Charles - Ag Technology &amp; Plant Science

A.S., College of Sequoias

B.S., California State University, Fresno

Cooper, Shannan - Agricultural Business Management

B.S., California Polytechnic State University, San Luis Obispo

M.B.A., California State University, Fresno

Fernandez, Fernando - Ornamental Horticulture

A.S., Kings River Community College

B.S., California State University, Fresno

M.S., California State University, Fresno

Ferry-Abee, Allison, Ph.D.

B.S., California State University, Fresno

Ph.D., University of California, Davis

McKeith, Russell - Animal Science

B.S., Southern Illinois University

M.S., University Of Georgia

M.S., Texas A&amp;M University

Pitigliano, Kimberly - Animal Science/Equine Science

B.S., California State University, Fresno

M.Ed., National University

Thompson, Kyle, Ph.D.

B.S., California State University, Fresno

M.S., Oklahoma State University, Stillwater

Ph.D., Oklahoma State University, Stillwater