

# Majors and Minors

*At the College of Agricultural and Environmental Sciences, you can explore virtually all the elements that make our world a safe, sustainable place to live.*

*Choose from any of our 29 majors and 40 minors, including an exploratory/undeclared option. You will be learning from today's top scientists and faculty at an internationally-recognized university with outstanding academics and a diverse, active student community.*

*Our research, faculty and students are diverse but our goal is the same: We work together to address climate change, conserve habitat and make sure all people have access to the food, space and hope they need to thrive.*

*This guide will help you get to know all of our majors and choose the one that will help you follow your passion and begin your career path.*

## MAJORS

Agricultural and Environmental Education	Environmental Horticulture and Urban Forestry	Landscape Architecture
Agricultural and Environmental Technology	Environmental Policy Analysis and Planning	Managerial Economics
Animal Biology	Environmental Science and Management	Marine and Coastal Science
Animal Science	Environmental Toxicology	Nutrition Science
Animal Science and Management	Food Science	Plant Sciences
Atmospheric Science	Global Disease Biology	Sustainable Agriculture and Food Systems
Biotechnology	Human Development	Sustainable Environmental Design
Clinical Nutrition	Hydrology	Viticulture and Enology
Community and Regional Development	International Agricultural Development	Wildlife, Fish and Conservation Biology
Ecological Management and Restoration		Undeclared/Exploratory Program
Entomology		

## MINORS

Aging and Adult Development	Environmental Horticulture	International Agricultural Development
Agricultural Pest Management	Environmental Policy Analysis and Planning	International Science Studies
Agricultural Systems and Environment	Environmental Toxicology	Landscape Restoration
Animal Science—Animal Biology	Food Service Management	Managerial Economics
Animal Science—Animal Genetics	Forensic Entomology	Medical—Veterinary Entomology
Animal Science—Aquaculture	Fungal Biology and Ecology	Nematology
Animal Science—Dairy/Livestock	Geographic Information Systems	Nutrition and Food
Animal Science—Equine	Geographic Studies	Nutrition Science
Atmospheric Science	Global Disease Biology	Precision Agriculture
Avian Sciences	Human Development	Science and Society
Climate Science and Policy	Hydrology	Soil Science
Community Development	Insect Biology	Watershed Science
Community Nutrition	Insect Ecology and Evolution	Wildlife, Fish and Conservation Biology
Contemporary Leadership		







### Agricultural and Environmental Education

Gain a foundation in agricultural and environmental sciences, as well as educational theory and practice, by attaining skills in teaching, communications and outreach.

#### Careers:

- Academic advisor/counselor
- Agricultural curriculum writer
- Agricultural extension educator
- Community organizer/advocate
- Environmental science educator
- High school agricultural education teacher
- Museum educator/docent/outdoor education specialist
- Writer/journalist
- Youth development educator
- Agricultural sales and/or marketing specialist

#### Specializations:

- Agricultural Business and Economics
- Animal Science
- Applied Biological Systems Technology
- Environmental Horticulture
- Environmental Science and Natural Resources
- Plant and Soil Sciences

#### Contact Information:

1202 Meyer Hall  
530-754-7915  
asac@ucdavis.edu  
[animalscience.ucdavis.edu/asac/ae-major.html](http://animalscience.ucdavis.edu/asac/ae-major.html)



### Agricultural and Environmental Technology

Learn how to integrate the next generation of technologies, such as big data, robotics, digital technology, AI and machine learning for more advanced, efficient and sustainable food, fiber and energy production.

#### Careers:

- Precision ag/digital ag specialist
- Technology integrator
- Tech entrepreneur
- Farm owner/manager
- Environmental consultant
- Business manager
- Plant supervisor
- Energy conservation specialist
- Product manager
- Extension associate

#### Specializations:

- Digital Agriculture
- Bioproducts and Wearable Technologies
- Energy and Environmental Technologies

#### Contact Information:

2030 Bainer Hall  
530-752-0102  
baeadvising@ucdavis.edu  
[bae.ucdavis.edu](http://bae.ucdavis.edu)



### Animal Biology

Use the process and principles of science, contemporary thinking in biology and a team approach to solve problems of a biological nature.

#### Careers:

- Epidemiologist
- Fisheries/wildlife biologist
- Geneticist/molecular biologist/genomics
- Physician/health professional
- Professor
- Research scientist
- Teacher/educator
- Veterinarian
- Zookeeper/zoo manager

#### Contact Information:

160 Hutchison Hall  
530-754-7277  
abi-advising@ucdavis.edu  
[ucdavis.edu/majors/animal-biology](http://ucdavis.edu/majors/animal-biology)



### Animal Science

Learn about the biology, management and utilization of domestic and captive animals by focusing on modern, efficient and humane ways to make the best use and care of the animals people encounter on a daily basis.

#### Careers:

- Animal caretaker/zookeeper
- Animal nutritionist
- Aquaculturist
- Farmer/rancher
- K-12 teacher
- Livestock producer/breeder
- Pharmaceutical sales representative
- Technical service representative
- USDA or state inspector
- Veterinarian

#### Specializations:

- Animal Science with a Disciplinary Focus (behavior, biochemistry, genetics, nutrition or physiology)
- Aquatic Animals
- Avian Sciences
- Companion and Captive Animals
- Equine Science
- Laboratory Animals
- Livestock and Dairy
- Poultry

#### Contact Information:

1202 Meyer Hall  
530-754-7915  
asac@ucdavis.edu  
[animalscience.ucdavis.edu/academics/undergrad/majors/ansci](http://animalscience.ucdavis.edu/academics/undergrad/majors/ansci)



### Animal Science and Management

Incorporate marketing, economics and accounting skills into businesses and careers working with animals and related agricultural industries.

#### Careers:

- Agricultural commodity analyst
- Animal health/veterinarian
- Farmer/rancher
- Feed/pet store manager
- Livestock production manager
- Marketing specialist
- Owner/operator of animal-based businesses
- Pet food manufacturer
- Pharmaceutical sales/consultant
- Small animal facility manager

#### Specializations:

- Aquatic Animals
- Companion Animals
- Dairy
- Equine
- Livestock
- Poultry
- Individualized

#### Contact Information:

1202 Meyer Hall  
530-754-7915  
asac@ucdavis.edu  
[animalscience.ucdavis.edu/academics/undergrad/majors/ansci-mgmt](http://animalscience.ucdavis.edu/academics/undergrad/majors/ansci-mgmt)



### Atmospheric Science

Discover how humans and ecosystems interact with weather, climate and air quality. Gain a predictive understanding of the atmosphere to guide decisions about Earth's most important natural resource—the air we breathe.

#### Careers:

- Air quality specialist/scientist
- Atmospheric chemist
- Atmospheric science researcher
- Broadcast meteorologist
- Climate scientist
- Educator
- Environmental scientist
- Meteorologist
- Renewable energy consultant
- Weather forecaster

#### Contact Information:

1150 Plant and Environmental Sciences Building  
530-752-1603  
lawradvising@ucdavis.edu  
[lawr.ucdavis.edu](http://lawr.ucdavis.edu)



### Biotechnology

Focus on the mechanics of life processes and their applications to improve human and animal health, food safety, energy production and environmental quality. This multidisciplinary field has an impact on almost every aspect of modern human life.

#### Careers:

- Biofuel specialist
- Bioinformatics scientist
- Biomedical engineer
- Food scientist
- Genetic counselor
- Microbiologist
- Molecular biologist
- Pharmacist
- Physician
- Plant breeder

#### Specializations:

- Animal Biotechnology
- Bioinformatics
- Fermentation/Microbiology
- Plant Biotechnology

#### Contact Information:

1220 Plant and Environmental Sciences Building  
530-752-1715  
[biotechmajor.ucdavis.edu](http://biotechmajor.ucdavis.edu)



### Clinical Nutrition

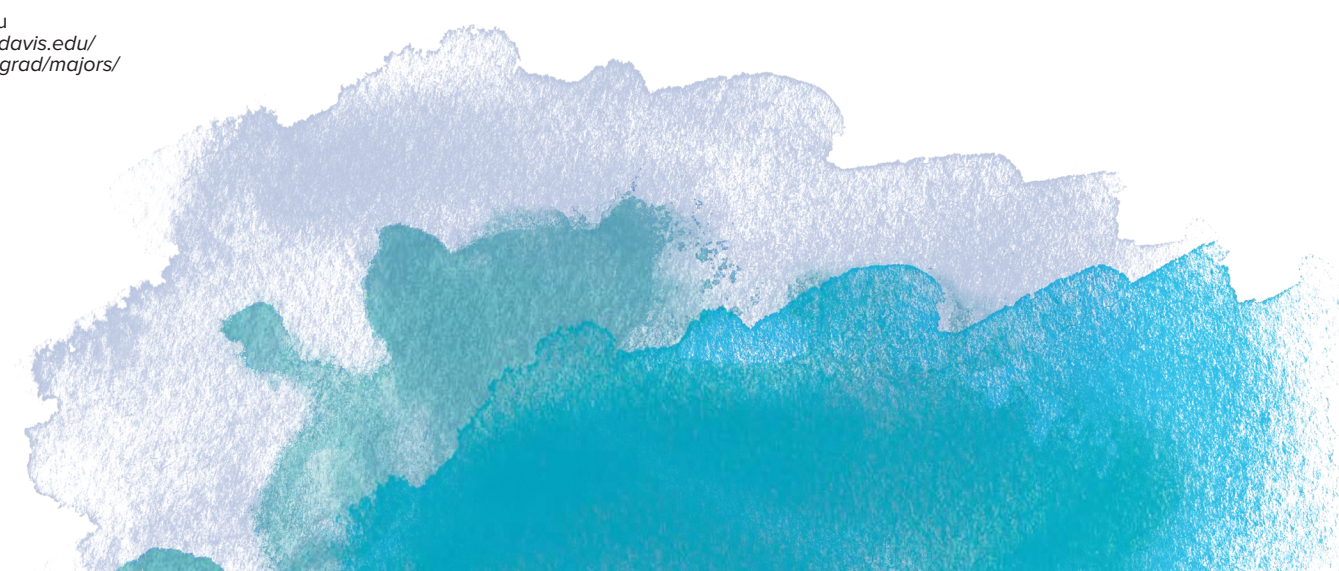
Apply principles of nutrition to guide people to eat healthier diets by means of therapy, education and research in hospitals, schools or communities. Fully accredited.

#### Careers:

- Dietetic technician
- Nutrition educator
- Food and drug investigator
- Food safety specialist
- Food service director
- Health and wellness educator
- Nurse/physician's assistant
- Degreed nutritionist
- Nutrition policy analyst
- Registered dietitian

#### Contact Information:

3202 Meyer Hall  
530-752-2512 or 530-752-7094  
nutritionadvising@ucdavis.edu  
[nutrition.ucdavis.edu](http://nutrition.ucdavis.edu)







### Community and Regional Development

Build skills to manage communities and understand and shape economic and sociocultural forces transforming organizations.

**Careers:**

- Attorney
- Community development coordinator
- Community organizer and advocate
- Economic development analyst
- Human resources manager
- Nonprofit administrator
- Public servant
- Social entrepreneur
- Social worker
- Urban and/or regional planner

**Specializations:**

- Global Communities
- Organization and Management
- Policy, Planning and Social Services

**Contact Information:**

1303 Hart Hall  
530-752-2244  
[humanecology.ucdavis.edu](http://humanecology.ucdavis.edu)



### Ecological Management and Restoration

Manage and restore wild and rangeland plant communities by gaining an understanding of how natural and managed ecosystems function, interact and connect with human society.

**Careers:**

- Environmental restoration practitioner
- Environmental scientist
- Farm/rangeland manager
- Natural resources manager
- Natural resources conservation specialist
- Naturalist/outdoor education specialist
- Parks or forest botanist
- Rangeland ecologist
- Reserve manager
- Restoration ecologist

**Contact Information:**

1220 Plant and Environmental Sciences Building  
530-752-9770  
[plantsciences.ucdavis.edu](http://plantsciences.ucdavis.edu)



### Entomology

Gain an understanding of insects and their diversity, while focusing on the importance of insects to science, the economy, environment and public health.

**Careers:**

- Agricultural inspector
- Apiculturist (beekeeper)
- Biosecurity specialist
- Educator
- Forensic scientist
- Insect biologist
- Integrated pest management consultant
- Medical/veterinary entomologist
- Museum curator
- Pest control advisor

**Contact Information:**

150 and 152 Hutchison Hall  
530-754-7277  
[entomology.ucdavis.edu](http://entomology.ucdavis.edu)



### Environmental Horticulture and Urban Forestry

Improve the environment and quality of life through floriculture, urban forestry and landscape restoration, and gain an understanding of plant production, management and biology.

**Careers:**

- Botanical garden manager
- Certified arborist
- City forester/urban forester
- Greenhouse/nursery manager
- Irrigation engineer
- Landscape contractor
- Native plant propagator
- Restoration practitioner
- Revegetation consultant
- Seed producer

**Specializations:**

- Floriculture/Nursery
- Urban Landscape Management
- Plant Biodiversity/Restoration

**Contact Information:**

1220 Plant and Environmental Sciences Building  
530-752-9770  
[plantsciences.ucdavis.edu](http://plantsciences.ucdavis.edu)



### Environmental Policy Analysis and Planning

Cultivate skills in evaluating environmental policy, transportation and planning, and natural resource management. Develop a deep understanding of the legal, economic, political and scientific issues involved in policymaking.

**Careers:**

- Air pollution analyst
- Energy policy specialist
- Environmental advocate
- Environmental attorney
- Legislative aid/legislator
- Natural resources analyst
- Transportation planner
- Urban and/or regional planner
- Water quality specialist
- Writer/journalist

**Specializations:**

- City and Regional Planning
- Climate Change Policy
- Conservation Management
- Energy and Transportation Planning
- Environmental Policy and Politics
- Integrative Policy
- Water Management

**Contact Information:**

2134 Wickson Hall  
530-752-7183  
[desp.ucdavis.edu](http://desp.ucdavis.edu)



### Environmental Science and Management

Explore the interaction of physical, chemical, biological and social components of environmental problems. Gain an understanding of the natural science behind environmental problems and how science impacts environmental decision-making.

**Careers:**

- Atmospheric scientist
- Conservation biologist
- Ecologist
- Environmental attorney
- Environmental educator
- Environmental impact specialist
- Geographic information systems analyst
- Natural resources manager
- Soil scientist
- Watershed manager

**Specializations:**

- Climate Change and Air Quality
- Ecology, Biodiversity and Conservation
- Geospatial Information Science
- Natural Resource Management
- Soils and Biogeochemistry
- Watershed Science

**Contact Information:**

2134 Wickson Hall  
530-752-7183  
[desp.ucdavis.edu](http://desp.ucdavis.edu)  
or  
1150 Plant and Environmental Sciences Building  
530-752-1603  
[lawr.ucdavis.edu](http://lawr.ucdavis.edu)



### Environmental Toxicology

Learn about environmental toxins, their environmental fate and their impact on humans and other species. Understand how the use of environmental toxins is regulated and monitored.

**Careers:**

- Biohazard specialist
- Environmental attorney
- Environmental chemist
- Environmental compliance analyst
- Environmental consultant
- Forensic scientist
- Pharmacist
- Physician
- Public health scientist
- Risk assessment analyst

**Specializations:**

- Ecotoxicology and Environmental Chemistry
- Forensic Science and Regulatory Toxicology
- Molecular and Biomedical Toxicology

**Contact Information:**

4111 Meyer Hall  
530-752-1042  
[etox.ucdavis.edu](http://etox.ucdavis.edu)



### Food Science

Explore innovative approaches to grow, process, package, store and distribute food while building skills to improve the convenience, nutrition, safety, stability, sustainability, taste and value of foods. Institute of Food Technologists (IFT) approved program.

**Careers:**

- Brewmaster
- Chemist
- Food production/supply chain manager
- Food safety specialist
- Microbiologist
- Process development engineer
- Product development scientist
- Quality assurance specialist
- Sales/purchasing representative
- Sensory scientist

**Specializations:**

- Brewing Science

**Contact Information:**

1204 Robert Mondavi Institute--South Building  
530-752-3250  
[bfadv@ucdavis.edu](mailto:bfadv@ucdavis.edu)  
[foodscience.ucdavis.edu](http://foodscience.ucdavis.edu)





### Global Disease Biology

Recognize and solve disease-related challenges on a global scale by studying the health connections between people, animals, plants and the environment.

**Careers:**

- Disease prevention and control officer
- Epidemiologist
- Food safety specialist
- Genetic counselor
- Government health regulator
- Healthcare professional
- Plant pathologist
- Public health expert
- Veterinarian
- World Health Organization associate

**Contact Information:**

150 Hutchison Hall  
530-754-4131  
gdb-advise@ucdavis.edu  
gdb.ucdavis.edu



### Human Development

Understand interactions among biological, psychological, social and contextual processes in humans throughout the life cycle.

**Careers:**

- Child care director
- Community health educator
- Counselor/psychologist
- Human resources director
- Humanitarian services
- K-12 teacher
- Nurse
- Physical therapist
- Physician
- Social worker

**Contact Information:**

1303 Hart Hall  
530-752-2244  
hcd.ucdavis.edu



### Hydrology

Study the occurrence, distribution and composition of water. Build skills to sustainably manage water quantity and quality.

**Careers:**

- Hydrologist
- Environmental scientist
- Environmental consultant
- Hydrogeologist
- Limnologist
- Wastewater treatment planner
- Water hygiene engineer
- Water policy analyst
- Water quality specialist
- Water resources engineer

**Contact Information:**

1150 Plant and Environmental Sciences Building  
530-752-1603  
lawradvising@ucdavis.edu  
lawr.ucdavis.edu



### International Agricultural Development

Explore ways that culture, economics and technology affect agriculture and build the skills and knowledge to help produce and distribute food to people in emerging economies.

**Careers:**

- Agribusiness manager
- Community organizer/advocate
- Corporate sustainability officer
- Economist
- Educator
- Farmer/rancher
- International aid worker
- International development practitioner
- Pest control advisor
- Public interest advocate

**Specializations:**

- Agricultural Production
- Environmental Issues
- Rural Communities
- Trade and Economic Development

**Contact Information:**

1238 Plant and Environmental Sciences Building  
530-752-4839  
plantsciences.ucdavis.edu



### Landscape Architecture

Design and plan landscapes and built environments that support desired ecological functions, integrate sustainable and regenerative technologies, and foster resilient, equitable and inclusive communities. Curriculum based on design studio work. Fully accredited.

**Careers:**

- Landscape architect
- Landscape ecologist
- Urban designer/planner
- Architectural designer
- Garden designer
- Ecological restoration planner
- Parks and recreation designer/manager
- Urban forestry specialist
- Horticultural designer/specialist
- Landscape construction manager

**Contact Information:**

135 Hunt Hall  
530-754-8628  
humanecology.ucdavis.edu/  
landscape-architecture-major



### Managerial Economics

Gain a thorough grounding in economic theory and practical business applications. Cultivate skills in quantitative methods, problem-solving strategies, critical thinking and effective communication that lead to promising careers in the business industry.

**Careers:**

- Accountant
- Agribusiness manager
- Analyst
- Entrepreneur
- Environmental planner
- Financial services consultant
- International consultant
- Investment banker
- Marketing/sales manager
- Stock/commodity broker

**Specializations:**

- Agribusiness Economics
- Business Economics
- Environmental and Resources Economics
- International Business Economics

**Contact Information:**

1176 Social Sciences and Humanities  
530-754-9536  
manecon@primal.ucdavis.edu  
manecon.ucdavis.edu



### Marine and Coastal Science

Use foundational knowledge in marine sciences to understand the modern issues facing aquatic and coastal environments.

**Careers:**

- Aquaculture specialist
- Aquarium operations management
- Coastal geologist
- Ecotoxicologist
- Environmental chemist
- Fisheries biologist
- Marine biologist/ecologist
- Ocean/coastal policy coordinator
- Oceanographer
- Watershed planner

**Specializations:**

- Coastal Environmental Processes
- Marine Environmental Chemistry

**Contact Information:**

2119 Earth and Physical Sciences  
530-752-9100  
mcs-advisers@ucdavis.edu  
marinescience.ucdavis.edu/  
programs/mcsci



### Nutrition Science

Study food components, their biologic actions and how to promote healthy diets and impact nutrition policy and public health.

**Careers:**

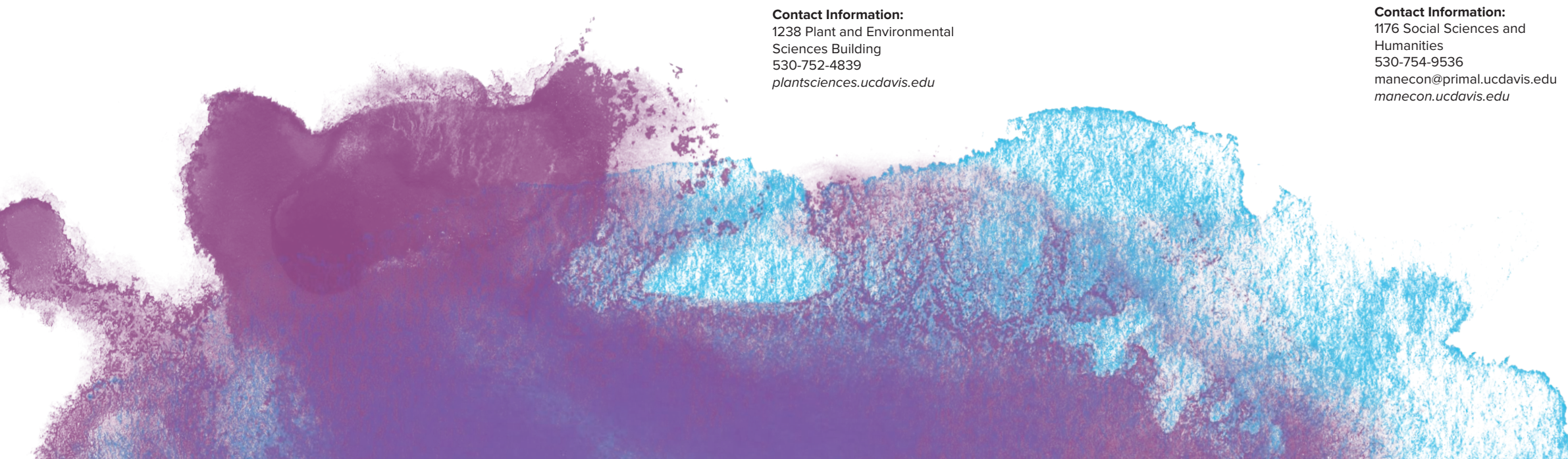
- Community nutritionist
- Educator
- Food and drug investigator
- Food scientist
- Laboratory staff researcher
- Nurse
- Nutrition policy analyst
- Pharmacist
- Physician
- Public health analyst

**Specializations:**

- Nutritional Biology
- Nutrition in Public Health

**Contact Information:**

3202 Meyer Hall  
530-752-2512  
530-752-7094  
nutritionadvising@ucdavis.edu  
nutrition.ucdavis.edu







### Plant Sciences

Learn how plants grow and develop in managed agricultural ecosystems and how plant products are utilized for food, fiber and environmental enhancement.

#### Careers:

- Agronomist
- Farm operations manager
- Farmer/rancher
- Horticulturist
- Pest control advisor
- Plant breeder
- Plant geneticist
- Postharvest technology manager
- Precision agriculture specialist
- Seed producer

#### Specializations:

- Crop Production
- Plant Breeding and Genetics
- Plant Sciences Individual Option
- Postharvest Biology and Technology

#### Contact Information:

1220 Plant and Environmental Sciences Building  
530-752-1715  
[plantsciences.ucdavis.edu](http://plantsciences.ucdavis.edu)



### Sustainable Agriculture and Food Systems

Address the environmental, social and economic challenges and opportunities associated with agricultural and food systems sustainability.

#### Careers:

- Agricultural policy analyst
- Community organizer
- Educator
- Farmer/rancher
- Food systems management
- International development
- Organic crops grower
- Permaculture specialist
- Small farm consultant
- Sustainability coordinator

#### Specializations:

- Agriculture and Ecology
- Food and Society
- Economics and Policy

#### Contact Information:

1152 Plant and Environmental Sciences Building  
530-752-1602  
[asi.ucdavis.edu/programs/safs](http://asi.ucdavis.edu/programs/safs)



### Sustainable Environmental Design

Prepares students to be leaders and practitioners in the pursuit of more sustainable communities. Emphasizes critical thinking, problem-solving, leadership and application of design and planning strategies to create more livable, equitable and ecologically sound communities.

#### Careers:

- Environmental designer
- City or regional planner
- Sustainability manager/coordinator
- Ecological restoration specialist
- Geographic information systems (GIS) specialist
- Environmental policy analyst
- Environmental educator
- Community development coordinator
- Transportation planner
- Architectural designer

#### Contact Information:

135 Hunt Hall  
530-754-8628  
[sed.ucdavis.edu](http://sed.ucdavis.edu)



### Viticulture and Enology

Study biological and physical aspects involved with grape and wine production and gain hands-on experience with grape growing and winemaking practices.

#### Careers:

- Cellar manager
- Chemist
- Enologist/laboratory manager
- Marketing specialist
- Microbiologist
- Sales representative
- Sensory scientist
- Tasting room manager
- Vineyard manager
- Winemaker

#### Contact Information:

1204 Robert Mondavi Institute—South Building  
530-752-3250  
[bftvadvising@ucdavis.edu](mailto:bftvadvising@ucdavis.edu)  
[wineserver.ucdavis.edu](http://wineserver.ucdavis.edu)



### Wildlife, Fish and Conservation Biology

Understand the relationships between the needs of wildlife, people and the environment and how these relationships are vital for the maintenance of ecological diversity, recreational resources and food supplies.

#### Careers:

- Aquaculture specialist
- Conservation biologist
- Educator
- Environmental attorney
- Fisheries biologist
- Forest/park ranger
- Marine biologist
- Veterinarian
- Wildlife rehabilitator
- Zoo biologist

#### Specializations:

- Fish Biology
- Wildlife and Conservation Biology
- Wildlife Health
- Individualized

#### Contact Information:

1086 Academic Surge  
530-754-9796  
[wfcbadvising@ucdavis.edu](mailto:wfcbadvising@ucdavis.edu)  
[wfc.ucdavis.edu](http://wfc.ucdavis.edu)



### Undeclared/Exploratory Program

Explore academic options, personal interests, strengths and career goals. This pre-major advising program assists students in defining and focusing academic interests.

#### Contact Information:

150 Mrak Hall  
530-752-0108  
[caesadvising@ucdavis.edu](mailto:caesadvising@ucdavis.edu)  
[caes.ucdavis.edu](http://caes.ucdavis.edu)

### UC Davis Admission Requirements

[ucdavis.edu/admissions/undergraduate](http://ucdavis.edu/admissions/undergraduate)

UC Davis offers a rigorous and rewarding academic environment, so make sure you meet or exceed our admission requirements to increase your chances for success in our college.

### Apply

[ucdavis.edu/admissions/undergraduate/apply](http://ucdavis.edu/admissions/undergraduate/apply)

The UC application for undergraduate admission and scholarships is available on August 1 and can be submitted November 1–30.

### Financial Assistance

[financialaid.ucdavis.edu](http://financialaid.ucdavis.edu)

Financial aid options are available for students at all income levels. Explore how scholarships, grants, work-study and other forms of assistance can help you reach your academic goals.

### CA&ES Undergraduate Academic Programs

[caes.ucdavis.edu/students](http://caes.ucdavis.edu/students)

CA&ES offers a supportive network of faculty, staff and peer advisors who will provide you with advising from the moment you step on campus until graduation. We offer a variety of programs and classes, such as Career Discovery Groups and Aggie Jumpstart, to help you explore majors and careers, define your educational goals and provide guidance to help you stay on track. We also offer opportunities for you to connect with fellow students and gain leadership skills through events and student organizations.

### Internships

[icc.ucdavis.edu](http://icc.ucdavis.edu)

Many CA&ES students explore potential careers through internships both off campus and on. Our college offers opportunities for students to build on classroom learning in our animal facilities, greenhouses, laboratories and on the Student Farm. Our students also try out jobs in industry, in environmental endeavors and with community organizations. The UC Davis Internship and Career Center will help you get hands-on experience and find your career direction.

### Career Discovery Groups

[caes.ucdavis.edu/students/cdg](http://caes.ucdavis.edu/students/cdg)

Career Discovery Groups, a partnership between the College of Agricultural and Environmental Sciences and the Internship and Career Center, give freshmen and first-year transfer students an opportunity to explore career possibilities and make academic choices for future success.

### Aggie Jumpstart

[caes.ucdavis.edu/students/aggie-jumpstart](http://caes.ucdavis.edu/students/aggie-jumpstart)

Aggie Jumpstart is a new college program created to promote inclusive academic excellence and student success through community building, leadership and advising. In partnership with the Retention Initiatives and the Internship and Career Center, Aggie Jumpstart works to address barriers for first-generation, low-income and underserved undergraduates and provides students with a network of UC Davis staff, faculty and other campus communities.



# Preparatory subject matter at a glance

This chart shows some lower division prep course work across our 29 majors. Many of our majors' lower division prep courses overlap, which means you can explore various interests while still making progress toward your intended major. You can also use this chart to determine which majors match your own interests in certain subjects. Take some time to consult the General Catalog and/or reach out to our academic advisors to learn more about specific majors and degree requirements.

If you are looking to transfer, use [assist.org](https://assist.org) to find available lower division courses at your community college to make progress in your intended major. Completing these lower division courses at your community college will help you dive into your upper division course work upon transferring. This chart does not include all preparatory subject matter. For more information, review the General Catalog for more details on university, college and major requirements. [catalog.ucdavis.edu](https://catalog.ucdavis.edu)

\*Required courses for this subject vary by specialization within the major. See additional information in the General Catalog at [catalog.ucdavis.edu](https://catalog.ucdavis.edu).

\*\* For Environmental Toxicology there is also a writing requirement, Writing 101 or 104 A-1.

\*\*\*Determined by area of interest. Students can consult with dean's office advisors or intended major advisors to discuss preparation based on interests.

	Biological Science	Chemistry	Computer Science	Math	Physics	Statistics
<b>Agricultural and Environmental Education</b>	2A/B	2A/B	—	16A/B or 17A/B or 21A/B	7A/B	—
<b>Agricultural and Environmental Technology</b>		2A/B	Technology-Agricultural & Environmental 30	17A/B/C or 21A/B/C	1A/B	Statistics 13
<b>Animal Biology</b>	2A/B/C	2A/B/C and 8A/B or 118A/B	—	16A/B/C or 17A/B/C or 21A/B/C	7A/B/C	Statistics 13 or 100 or 102 or Plant Sciences 120
<b>Animal Science</b>	2A/B/C	2A/B and 8A/B or 118A/B	—	16A/B or 17A/B or 21A/B	—	Statistics 100 or Plant Sciences 120
<b>Animal Science and Management</b>	2A/B/C	2A/B and 8A/B or 118A/B	Plant Sciences 21 or Computer Science Engineering 15	16A/B/C or 17A/B/C or 21A/B/C	—	Statistics 100 or 103 or Plant Sciences 120
<b>Atmospheric Science</b>	Plant Sciences 2	2A/B	Computer Science Engineering 36A or course selected with advisor's approval	21A/B/C/D and 22A/B	9A/B/C	Statistics 13
<b>Biotechnology</b>	2A/B/C	2A/B/C and 8A/B or 118A/B/C or 128A/B/C/129A	—	16A/B or 17A/B or 21A/B	7A/B	Statistics 100 or Plant Sciences 120
<b>Clinical Nutrition</b>	2A/B	2A/B/C and 8A/B	—	Check with major advisor	—	Statistics 13
<b>Community and Regional Development</b>	—	—	Plant Sciences 21 or Computer Science Engineering 15	—	—	Sociology 46B or Statistics 13 or 32
<b>Ecological Management and Restoration</b>	2A/B/C	2A/B	—	16A/B or 17A/B or 21A/B	1A/B or 7A/B/C	Plant Sciences 120
<b>Entomology</b>	2A/B/C	2A/B/C and 118A/B	—	16A/B/C or 17A/B/C or 21A/B/C	1A/B	Statistics 13 or 32 or 100 or Plant Pathology 120
<b>Environmental Horticulture and Urban Forestry</b>	2A/B and Plant Sciences 2	2A/B	—	16A or Statistics 13	1A/B	Statistics 13 or Math 16A
<b>Environmental Policy Analysis and Planning</b>	2A or 10	2A or 10	Plant Sciences 21 or Communication 12Y	16A/B or 17A/B or 21A/B	1A	Statistics 13 or 32
<b>Environmental Science and Management</b>	2A/B/C	2A/B	—	16A/B or 17A/B or 21A/B	7A/B/C or 1A/B	Statistics 13 or 100 (Statistics 100 recommended)
<b>Environmental Toxicology**</b>	2A/B/C	2A/B/C and 118A/B/C or 128A/B/C/129A	—	17A/B/C or 21A/B/C	7A/B/C	Statistics 100 or 102 or 103 or 104 or 106 or 108
<b>Food Science</b>	2A	2A/B/C and 8A/B or 118A/B/C	—	16A/B/C	7A/B/C	Statistics 13
<b>Global Disease Biology</b>	2A/B/C	2A/B/C and 8A/B or 118A/B	—	17A/B/C or 21A/B/C	7A/B	Statistics 13 or 100
<b>Human Development</b>	2A or 10 (see college advisor)	—	—	—	—	Psychology 41 or Sociology 46A/B or Statistics 10 or 13
<b>Hydrology</b>	2A/B	2A/B/C	Engineering 6	21A/B/C/D and 22A/B	9A/B/C	Statistics 130A/B or Civil and Environmental Engineering 114
<b>International Agricultural Development</b>	2A/B and/or Plant Sciences 2 *	2A/B *	—	16A/B *	*	Statistics 13 or Plant Sciences 120 or Sociology 46B *
<b>Landscape Architecture</b>	2B	See General Catalog	See General Catalog	See General Catalog	See General Catalog	See General Catalog
<b>Managerial Economics</b>	—	—	Plant Sciences 21 or Computer Science Engineering 10 or 15 or 30	16A/B/C or 21A/B	—	Statistics 13 and 103
<b>Marine and Coastal Science</b>	2A/B/C	2A/B/C	—	16A/B/C or 17A/B/C or 21A/B/C (see college advisor)	7A/B/C or 9A/B/C	Statistics 100
<b>Nutrition Science</b>	2A/B/C	2A/B/C and (8A/B or 118A/B or 128A/B/129A)	—	16A/B or 17A/B (Biology option only)	1A/B or 7A/B (Biology option only)	Statistics 13 or 100 or Plant Sciences 120 and Sociology 46A or Psychology 41
<b>Plant Sciences</b>	2A/B and Plant Sciences 2	2A/B/C and 8A/B or 118A/B/C	—	16A/B or 17A/B	1A/B or 7A/B/C	Plant Sciences 120
<b>Sustainable Agriculture and Food Systems</b>	2A or 10 (2A/B for Agriculture and Ecology track only)	(2A/B for Agriculture and Ecology track only)	—	16A/B *	1A (Agriculture and Ecology track only)	See General Catalog
<b>Sustainable Environmental Design</b>	2B	See General Catalog	See General Catalog	See General Catalog	See General Catalog	See General Catalog
<b>Undeclared/Exploratory Program***</b>						
<b>Viticulture and Enology</b>	2A and Plant Sciences 2	2A/B/C and 8A/B	Plant Sciences 21	16A/B	1A/B or 7A	Statistics 106 or Plant Sciences 120
<b>Wildlife, Fish and Conservation Biology</b>	2A/B/C	2A/B and 8A/B	—	16A/B	1A/B	Statistics 100 or 102 or Plant Sciences 120 or Wildlife 103





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