Majors and Minors

The College of Agricultural and Environmental Sciences (CA&ES) has an international research reputation with outstanding academics and a diverse, active student community. The college houses 28 majors and 43 minors, plus an exploratory/undeclared option, in the fields of agriculture, environment, human needs and social sciences. Many students are unsure about their major choice when they arrive on campus, and we are here to help guide you. You are here to explore your interests, find your passion and begin your career path.

<table>
<thead>
<tr>
<th>MAJORS</th>
<th>MINORS</th>
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<tbody>
<tr>
<td>Agricultural and Environmental Education</td>
<td>Environmental Horticulture</td>
</tr>
<tr>
<td>Animal Biology</td>
<td>Environmental Policy Analysis and Planning</td>
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<tr>
<td>Animal Science</td>
<td>Environmental Toxicology</td>
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<tr>
<td>Animal Science and Management</td>
<td>Fiber and Polymer Science</td>
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<td>Atmospheric Science</td>
<td>Food Service Management</td>
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<td>Biotechnology</td>
<td>Forensic Entomology</td>
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<tr>
<td>Clinical Nutrition</td>
<td>Fungal Biology and Ecology</td>
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<td>Community and Regional Development</td>
<td>Geographic Information Systems</td>
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<tr>
<td>Ecological Management and Restoration</td>
<td>Geographic Studies</td>
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<tr>
<td>Entomology</td>
<td>Global Disease Biology</td>
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<td>Human Development</td>
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<td>Hydrology</td>
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<td>Insect Biology</td>
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<td>Insect Ecology and Evolution</td>
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<td></td>
<td>International Agricultural Development</td>
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<td>International Science Studies</td>
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<td>Landscape Architecture</td>
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<td>Landscape Restoration</td>
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<td>Managerial Economics</td>
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<td>Medical–Veterinary Entomology</td>
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<td>Nematology</td>
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<td>Nutrition and Food</td>
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<td>Nutrition Science</td>
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<td>Precision Agriculture</td>
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<td>Science and Society</td>
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<td>Soil Science</td>
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<td>Textiles and Clothing</td>
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<td>Watershed Science</td>
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<td></td>
<td>Wildlife, Fish and Conservation Biology</td>
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Aging and Adult Development                                             International Agricultural Development
Agricultural Pest Management                                               International Science Studies
Agricultural Systems and Environment                                      Landscape Restoration
Animal Science—Animal Biology                                             Managerial Economics
Animal Science—Animal Genetics                                            Medical–Veterinary Entomology
Animal Science—Aquaculture                                               Nematology
Animal Science—Dairy/Livestock                                           Nutrition and Food
Animal Science—Equine                                                     Nutrition Science
Applied Computing and Information Systems                                 Precision Agriculture
Atmospheric Science                                                       Science and Society
Avian Sciences                                                            Soil Science
Climate Science and Policy                                               Textiles and Clothing
Community Development                                                     Watershed Science
Community Nutrition                                                       Wildlife, Fish and Conservation Biology
Contemporary Leadership                                                   

Environmental Science and Management
Environmental Toxicology
Food Science
Global Disease Biology
Human Development
Hydrology
International Agricultural Development
International Science Studies
Landscape Architecture
Landscape Restoration
Managerial Economics
Medical–Veterinary Entomology
Nematology
Nutrition and Food
Nutrition Science
Precision Agriculture
Science and Society
Soil Science
Textiles and Clothing
Watershed Science
Wildlife, Fish and Conservation Biology
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 extension educator
- Community organizer/advocate
- Environmental science educator
- High school agricultural education teacher
- K-12 teacher (with certification)
- Museum educator/docent
- Non-traditional agricultural and environmental educator
- Writer/journalist
- Youth development educator

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

Contact Information:
1002 Meyer Hall
530-754-7915
abbi-advising@ucdavis.edu
animalscience.ucdavis.edu/oss/oss-major.html

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:
- Environmental impact specialist
- Epidemiologist
- Fisheries/wildlife biologist
- Geneticist/molecular biologist/genomics
- Physician/health professions
- Professor (university/college)
- Research scientist
- Teacher/educator
- Veterinarian
- Zookeeper/zoo manager

Contact Information:
160 Hutchison Hall
530-754-7277
abi-advising@ucdavis.edu
animalscience.ucdavis.edu/oss/oss-major.html

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 (with certification)
- 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/oss/oss-major.html

Animal Science and Management

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

Careers:
- Agriculture commodity analyst
- Animal health/veterinarian
- Farmer/rancher
- Feedlot store manager
- Livestock production manager
- Marketing specialist
- Owner/operator—animal-based businesses
- Pet food manufacturing
- Pharmaceutical sales/consulting
- 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/oss/oss-major.html

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:
1550 Plant and Environmental Sciences Building
530-752-1803
weather@ucdavis.edu
atmospheric.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
- Biomechanics
- Biomedical engineer
- Food scientist
- Genetic counselor
- Microbiologist
- Molecular biologist
- Pharmaceutical sales
- Physician
- Plant breeder
- Small animal facility manager

Specializations:
- Animal Biotechnology
- Bioinformatics
- Biotechnology
- Microbiologist
- Molecular biologist
- Pharmaceutical sales
- Physician
- Plant breeder

Contact Information:
1202 Meyer Hall
530-752-2512
biotechnology@ucdavis.edu
nutrition.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
- Educator
- Food and drug investigator
- Food safety specialist
- Food service director
- Health and wellness educator
- Nurse
- Nutritionist
- Nutrition policy analyst
- Registered dietitian

Contact Information:
1202 Meyer Hall
530-752-2512
nutritionadvising@ucdavis.edu
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 resource manager
- Nonprofit administrator
- Public interest advocate
- Social entrepreneur
- Social worker
- Urban and regional planner

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

Contact Information:
1002 Meyer Hall
530-752-2244
humanecology.ucdavis.edu

Food science students give olive harvesting a try at campus research groves.
Entomology
Gain an understanding of insects and their diversity, while focusing on the importance of insects to health, agriculture, and the environment. Learn about the role of insects in the biological control of pests and diseases, and how they interact with plants, animals, and the environment.

Careers:
- Agricultural inspector
- Apiarist (beekeeper)
- Biologist
- Biostatistician
- Disease control officer
- Ecologist
- Entomologist
- Forensic scientist
- Ornithologist
- Pathologist
- Pest control advisor
- Research scientist

Specializations:
- Biotechnology
- Disease-vector interaction
- Entomological health

Contact Information:
Department of Entomology
1220 Plant and Environmental Sciences Building
530-752-9770
entomology.ucdavis.edu

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

Careers:
- Agricultural inspector
- Apiarist (beekeeper)
- Biostatistician
- Disease control officer
- Ecologist
- Entomologist
- Forensic scientist
- Horticulturist
- Landscape architect
- Pest control advisor

Specializations:
- Landscape design and management
- Horticulture

Contact Information:
Department of Environmental Horticulture and Urban Forestry
1220 Plant and Environmental Sciences Building
530-752-9770
environmentalhorticulture.ucdavis.edu

Environmental Policy Analysis and Planning
Develop a deep understanding of the legal, economic, political, and scientific issues involved in policymaking. Gain skills in evaluating environmental policies and regulations, and learn how to communicate effectively with policymakers and stakeholders.

Careers:
- Agricultural inspector
- Applied economist
- Biostatistician
- Disease control officer
- Ecologist
- Entomologist
- Forensic scientist
- Horticulturist
- Legislative aide
- Policy analyst

Specializations:
- Environmental economics
- Environmental law
- Public policy

Contact Information:
Department of Environmental Policy Analysis and Planning
1220 Plant and Environmental Sciences Building
530-752-9783
epp.ucdavis.edu

Environmental Science and Management
Gain an understanding of the natural science behind environmental problems and how science impacts environmental decision-making. Develop a deep understanding of the legal, economic, political, and scientific issues involved in policymaking.

Careers:
- Agricultural inspector
- Applied economist
- Biostatistician
- Disease control officer
- Ecologist
- Entomologist
- Forensic scientist
- Horticulturist
- Legislative aide
- Policy analyst

Specializations:
- Environmental economics
- Environmental law
- Public policy

Contact Information:
Department of Environmental Science and Management
1220 Plant and Environmental Sciences Building
530-752-9783
epp.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:
- Agricultural inspector
- Applied economist
- Biostatistician
- Disease control officer
- Ecologist
- Entomologist
- Forensic scientist
- Horticulturist
- Legislative aide
- Policy analyst

Specializations:
- Ecotoxicology
- Environmental chemistry
- Forensic science
- Regulatory toxicology

Contact Information:
Department of Environmental Toxicology
1220 Plant and Environmental Sciences Building
530-752-9783
epp.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 quality of foods. Institute of Food Technologists (IFT) accredited.

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:
- Sensory science
- Sensory analysis
- Sensory evaluation

Contact Information:
Department of Food Science
1204 Robert Mondavi Institute– South Building
530-752-3250
foodscience.ucdavis.edu

Global Disease Biology
Address global diseases and health challenges by studying the connection between disease and its relationship to the health of people, animals, plants and the environment.

Careers:
- Disease prevention and control officer
- Epidemiologist
- Food safety specialist
- Global health care advocate
- Government health regulator
- Physician
- Plant pathologist
- Public health expert
- Veterinarian
- World Health Organization associate

Contact Information:
Department of Global Disease Biology
1204 Robert Mondavi Institute– South Building
530-752-3250
foodscience.ucdavis.edu

Envirotex plant science students gain hands-on experience on a field trip to Suisun Marsh.
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 (with certification)
- Social worker

Contact Information:
1303 Hart Hall
530-752-2244
humanecology.ucdavis.edu

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

Careers:
- Hydrologist
- Environmental scientist
- Environmental consultant
- Hydrogeologist
- Limnologist
- Water hygene engineer
- Water policy analyst
- Water quality specialist
- Water resources engineer

Contact Information:
1700 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 the people of emerging economies.

Careers:
- Agribusiness manager
- Community organizer and advocate
- Corporate sustainability officer
- Economist
- Educator
- Farmer/rancher
- International aid worker
- International developer
- Pest management consultant
- 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
Use creatively and apply visual and technological skills to design parks, neighborhoods and urban open spaces for the use of communities and for conservation of the environment. Fully accredited.

Careers:
- Landscape architect
- Architect
- Environmental restoration designer
- Analyst
- Forester
- Garden designer
- Interpretive landscape designer
- Landscape manager
- Park ranger/park manager
- Recreational facilities designer/planner
- Urban and/or regional planner

Contact Information:
135 Hart Hall
530-754-8628
landscape-architecture-major.humanecology.ucdavis.edu

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:
1776 Social Sciences and Humanities
530-754-9536
manec@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
- Ecologist
- 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 Building
530-752-9100
mcs-advisers@ucdavis.edu

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
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

Wildlife students track bluebirds in nest boxes along Putah Creek
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
caes.ucdavis.edu

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

Careers:
• Agriculture policy analyst
• Community organizer
• Educator
• Farmer/runner
• 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

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
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
wfhbadvising@ucdavis.edu
wfhb.ucdavis.edu

Sustainable Environmental Design
Create and build sustainable communities and landscapes by engaging in urban and environmental design, local government planning and green building.

Careers:
• Architect
• Community development coordinator
• Environmental designer
• Environmental educator
• Environmental policy analyst
• Landscape designer
• Real estate management
• Sustainability coordinator
• Transportation planner
• Urban and/or regional planner

Contact Information:
135 Hunt Hall
530-754-8628
humanecology.ucdavis.edu/sustainable-environmental-design

UC Admission Requirements
admission.universityofcalifornia.edu

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

Apply
admission.universityofcalifornia.edu
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

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.

Advising
caes.ucdavis.edu/students/current/advising

CAES offers an extensive network of advising for undergraduate students. From the moment you step on campus for orientation until you graduate, you will receive general and comprehensive advising by faculty, staff and peer advisors. We will help you find the right major, clarify your educational goals and provide guidance with developing your schedule and managing your degree requirements.

Internships
icc.ucdavis.edu

Many CAES students explore potential careers through internships both off campus and on. Our college offers opportunities for students to build off classroom learning and get your hands dirty 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.
Preparatory subject matter at a glance

This chart shows how lower division preparatory courses overlap in many of our majors. You can also use this chart to access which majors you may be more successful in based on your interest in certain subjects. Take some time to consult the General Catalog and/or seek academic advising about your specific major and degree requirements.

If you are looking to transfer, use assist.org to find available lower division coursework for the majors offered at your community college.

Successful completion of these lower division courses will help you begin your upper division course work upon transfer and significantly reduce time to degree.

This chart does not include all preparatory subject matter. Consult the General Catalog for details regarding university, college and major requirements.

See additional information in the General Catalog at catalog.ucdavis.edu.

<table>
<thead>
<tr>
<th>Biological Science</th>
<th>Chemistry</th>
<th>Computer Science</th>
<th>Math</th>
<th>Physics</th>
<th>Statistics</th>
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<tr>
<td>Agricultural and Environmental Education</td>
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<td>1A/B/C or 17A/B or 21A/B/C</td>
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<td>Computer Science Engineering 15</td>
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<td>1A/B or 7A/B/C</td>
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<td>Entomology</td>
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<td>1A/B or 7A/B/C</td>
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<tr>
<td>Environmental Toxicology</td>
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<td>1A/B or 7A/B/C</td>
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<td>Food Science</td>
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<td>Global Disease Biology</td>
<td>2A/B/C and 8A/B or 11B/B</td>
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<td>7A/B</td>
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* Required courses for this subject vary by specialization within the major

See additional information in the General Catalog at catalog.ucdavis.edu.
The university’s research farm, Russell Ranch, provides an outdoor lab setting for soil science students