



AGRICULTURAL EDUCATION AND COMMUNICATION

With a focus on disseminating scientific knowledge, agricultural education and communication professionals empower communities to gain a balanced understanding of food systems, natural resources, and related sciences. Agricultural Education and Communication students supplement core technical agriculture courses with teaching, leadership, or media experiences.

AEC.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

AGRICULTURAL EDUCATION AND COMMUNICATION



SPECIALIZATIONS

- Agricultural Education
- Communication and Leadership Development

CAREERS




- Agriscience Teacher
- Extension Agent
- Sales Representative
- Communications Strategist
- Lawyer
- Science Writer
- Digital Media Manager
- Lobbyist
- Video Producer
- Marketing Specialist

DISCOVER MORE

- Related Minors: Agricultural Curriculum and Development, Agricultural and Natural Resource Communication, Extension Education, Leadership
- Student Organizations: Agricultural Communicators and Leaders of Tomorrow, Collegiate Farm Bureau, Gator Collegiate FFA Alumni
- Study abroad in Belize, Costa Rica, Colombia, or Greece
- State-of-the-art Mac Lab and video equipment available for student use
- Internship opportunities prepare students to earn Florida Teacher Certification.

Offered in Gainesville, Plant City, and through UF Online.



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AGRICULTURAL OPERATIONS MANAGEMENT

This major combines hands-on applied coursework and core business principles with emerging technologies and sustainable methods. Students gain experience in systems management, environmental quality, energy efficiency, agricultural machinery, GIS/GPS technology, remote sensing, irrigation, power systems, water control, and precision agriculture.

ABE.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



AGRICULTURAL OPERATIONS MANAGEMENT

CONCENTRATIONS

- Sustainable Land, Energy, and Water
- Agribusiness Management
- Animal Production Management
- Horticulture and Crop Management
- Smart Agricultural Management
- Agri-food Systems Management




CAREERS

- Commercial Construction Manager
- Farm or Ranch Manager
- Food Processing Manager
- Greenhouse Manager
- Irrigation Specialist
- Landscape Manager
- Precision Agriculture Specialist
- Procurement Specialist
- Production Manager
- Sales Representative
- Supply Chain Manager

DISCOVER MORE

- Related Minors: Packaging Science and Precision Agriculture
- Student Organization: Agricultural Operations Management Club
- Study abroad in Germany
- Hands-on lab experiences in irrigation, electricity, plumbing, machinery, construction, and agricultural technologies, combined with business courses in management, finance, and marketing, equip students with a diverse skill set for a wide range of career opportunities. Students are well-prepared for the technological demands of their chosen fields through computer skills training.



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ANIMAL SCIENCES

Animal Sciences graduates pursue careers in the science and business of producing domestic livestock species or animal-related products. They may also pursue veterinary studies for future work with companion animals, livestock, or other species. Animal Sciences students study biotechnology, reproduction, genetics, nutrition, physiology, growth, behavior, management, and food processing.

ANIMAL.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

ANIMAL SCIENCES



SPECIALIZATIONS

- Animal Biology*
- Equine
- Food Animal
- Integrative Animal Sciences




**Satisfies academic requirements for professional school programs in medicine, dentistry, veterinary medicine, pharmacy, and other health-related programs.*

CAREERS

- Animal Health Researcher
- Animal Nutritionist
- Animal Technician
- Animal Welfare Specialist
- Dentist, Doctor, Pharmacist, or Veterinarian
- Extension Agent
- Food Safety Inspector
- Herd Manager
- Meat Scientist
- Reproduction Specialist
- Sales Representative

DISCOVER MORE

- Student Organizations: Block and Bridle, Dairy Science Club, Equestrian Club, Gator Collegiate Cattlewomen, Minority Pre-Veterinary Medicine Club, People for Animal Wellness, Pre-Veterinary Medicine Club
- Students gain hands-on experience through instruction at species-specific research facilities.
- More than \$40,000 in undergraduate scholarships are awarded annually by the department.
- Students gain decision-making and critical thinking skills through participation in national animal and meat judging competitions.

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BIOLOGICAL ENGINEERING

Biological engineers pioneer new technologies and processes in areas such as bioprocessing, precision agriculture, plant biology for space missions, biofuels, packaging, agricultural robotics, and remote sensing along with addressing critical soil and water issues. Graduates are educated in the biological and environmental sciences, as well as in engineering. They help ensure we have the basic necessities of life: food, water, energy and a safe, healthy environment.

ABE.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

BIOLOGICAL ENGINEERING




CAREERS

- Manufacturing Engineer
- Packaging Engineer
- Process Design Engineer
- Process Safety Engineer
- Project Engineer
- Quality Control Engineer
- Research and Development Engineer
- Technical Services Engineer
- Technical Manager

DISCOVER MORE

- Related Minor: Packaging Science and Precision Agriculture
- Student Organizations: American Society of Agricultural and Biological Engineers (ASABE), Packaging Science Club
- Study abroad in Germany
- Students participate in national competitions such as robotics team and quarter-scale tractor
- One of only two engineering-based packaging programs in the nation
- Accredited by the Engineering Accreditation Commission of ABET



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BIOLOGY

This program provides a broad, general overview of the structure, function, growth, origin, evolution, and distribution of living organisms. Biology students take courses in biology, chemistry, physics, calculus, and statistics. The major is flexible and combines the faculty and resources of two UF colleges to prepare students for career success.

[CALS.UFL.EDU/BIOLOGY](https://cals.ufl.edu/biology)

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

BIOLOGY

SPECIALIZATIONS

- Applied Biology
- Biotechnology
- Natural Science
- Pre-professional*

**Satisfies academic requirements for professional school programs in medicine, dentistry, veterinary medicine, pharmacy, and other health-related programs.*

CAREERS

- Bioinformatics Assistant
- Biological or Laboratory Technician
- Conservation Scientist
- Dentist, Doctor, Pharmacist, or Veterinarian
- Epidemiologist
- Field Biologist
- Medical Scribe
- Quality Assurance Specialist
- Research Scientist

DISCOVER MORE

- Related Minors: Bioinformatics; Pathogenesis
- Student Organizations: Pre-Veterinary Medicine Club, Pre-Dental Society, Best Buddies
- Through CALS, Biology students have a dedicated team of academic advisors.
- Many Biology students elect to continue their education through professional or graduate school.
- Biology is a shared major between two UF colleges. The core of the major is the same, with CALS Biology focusing on communication skills in addition to science.

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BOTANY

This program provides a broad background in the biology of plants, from the molecular to the whole-plant level. Botany students study anatomy, biochemistry, ecology, genetics, physiology, taxonomy, and molecular biology of plants. This flexible major combines the faculty and resources of two UF colleges to prepare students for career success.

BOTANY.BIOLOGY.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

BOTANY




SPECIALIZATIONS




- General Botany
- Botanical Research

CAREERS

- Arborist
- Biophysicist
- Botanist
- Ecologist
- Museum Curator
- Plant Breeder
- Plant Technician
- Research Scientist
- Taxonomist

DISCOVER MORE

- Student Organization: Gators Reaching Out With Botany (GROW Botany)
 - This major is shared between two UF colleges. The core of the major is the same, with CALS Botany focusing on communication skills in addition to science.
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DIETETICS

This program applies the science of food and nutrition to the health and well-being of individuals and groups. Dietetics students study chemistry, biology, microbiology, nutrition, communication, food science and management. Graduates are well-prepared for dietetic internships or graduate study.

FSHN.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

DIETETICS

CAREERS

- Clinical Dietitian/
Nutritionist
- Corporate Wellness
Specialist
- Eating Disorders
Specialist
- Food Bank Nutrition
Director
- Food Service
Director
- Nutrition/Health
Educator
- Public Policy
Consultant
- Research Dietitian
- Sports Nutritionist

DISCOVER MORE

- Related Minors: Food
Science, Nutritional
Sciences
- Student Organizations:
Food Recovery Network,
Food Science and Human
Nutrition Club
- Study abroad in France,
Greece, or Italy
- Success rates of
graduates on the
Registered Dietitian
exam far exceed the
national average.



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



ENTOMOLOGY AND NEMATOLOGY

This biological science includes the study of insects, mites, ticks, spiders, and nematodes. These creatures can have both helpful and harmful effects on our food, environment, and health. Entomology and Nematology students study ecology, medically significant arthropods, social insects, insect management, physiology, behavior, evolution, natural ecosystem cycles, and systematics.

ENTNEMDEPT.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

ENTOMOLOGY AND NEMATOLOGY

SPECIALIZATIONS

- Biological Science of Insects
- Pre-professional*
- Urban Pest Management

**Satisfies academic requirements for professional school programs in medicine, dentistry, veterinary medicine, pharmacy, and other health-related programs.*




CAREERS

- Apiculturist
- Biosecurity Program Manager
- Customs and Border Protection Agriculture Specialist
- Dentist, Doctor, Pharmacist, or Veterinarian
- Ecotourism Manager
- Extension Agent
- Pest Control Specialist
- Public Health Specialist
- Research Entomologist

DISCOVER MORE

- Related Minor: Entomology and Nematology
- Student Organizations: Entomology Club, Urban Entomological Society
- Study abroad in Italy
- The UF Department of Entomology and Nematology is ranked #1 in the world, according to the Center for World University Rankings.
- Student members of the Entomology Club develop skills in science communication through work with the club's Arthropod Petting Zoo.

*Offered in Gainesville
and through UF Online.*

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ENVIRONMENTAL MANAGEMENT IN AGRICULTURE AND NATURAL RESOURCES

Students in this interdisciplinary program develop the scientific and technical foundation to integrate and communicate environmental issues in agriculture, urban, and natural ecosystems. Students study soil and water sciences, wetlands, nutrient and pest management, ecology, geographic information systems (GIS), and natural resource policy.

SOILS.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

ENVIRONMENTAL MANAGEMENT IN AGRICULTURE AND NATURAL RESOURCES

CAREERS

- Environmental Consultant
- Environmental Lawyer
- Environmental Technician
- Extension Agent
- Park Ranger
- Resource Conservationist
- Water Resource Manager
- Wetland Conservation/Preservation Manager

DISCOVER MORE

- Related Minors: Agricultural and Natural Resource Ethics and Policy; Entomology and Nematology; Environmental Science; Leadership
- Student Organizations: Agronomy and Soils Club, Compost Cooperative and Gardens, Environmental Science Alliance, Wetlands Club
- Graduates find jobs with agricultural producers, consulting companies and government agencies involved in maintaining a sustainable environment.

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and through UF Online.*



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



B.A., ENVIRONMENTAL SCIENCE

This interdisciplinary major prepares students to find solutions to address current and emerging environmental issues, including climate change, pollution, conservation, sustainable management, resource recovery, and protecting air, land, and water quality. The **BA** degree program emphasizes economics, resource management, environmental ethics, environmental policy and law, and leadership, along with exposure to ecology and climate, land, and water resource sciences. It allows students to analyze complex environmental issues from multiple perspectives and design innovative, economically feasible, and socially responsible solutions.

SNRE.IFAS.UFL.EDU




B.A., ENVIRONMENTAL SCIENCE

The School of Natural Resources and Environment also offers a B.S. in Environmental Science that focuses more on natural sciences such as ecology, hydrology, and earth systems sciences.

CAREERS

- Climate Change Adaptation Planner
- Environmental Consultant
- Environmental Educator
- Environmental Lawyer
- Environmental Policy Analyst
- Environmental Scientist
- Extension Agent
- Ecological Resilience Scientist
- Sustainability Coordinator



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



B.S., ENVIRONMENTAL SCIENCE

This interdisciplinary major prepares students to find solutions to address current and emerging environmental issues, including climate change, pollution, conservation, sustainable management, resource recovery, and others. The **BS** degree program emphasizes ecology, climate, land, and water resource sciences, environmental methods and technology, along with exposure to environmental ethics, policy, law, and resource management. It allows students to analyze complex environmental issues from multiple perspectives and design innovative, economically feasible, and socially responsible solutions.

SNRE.IFAS.UFL.EDU

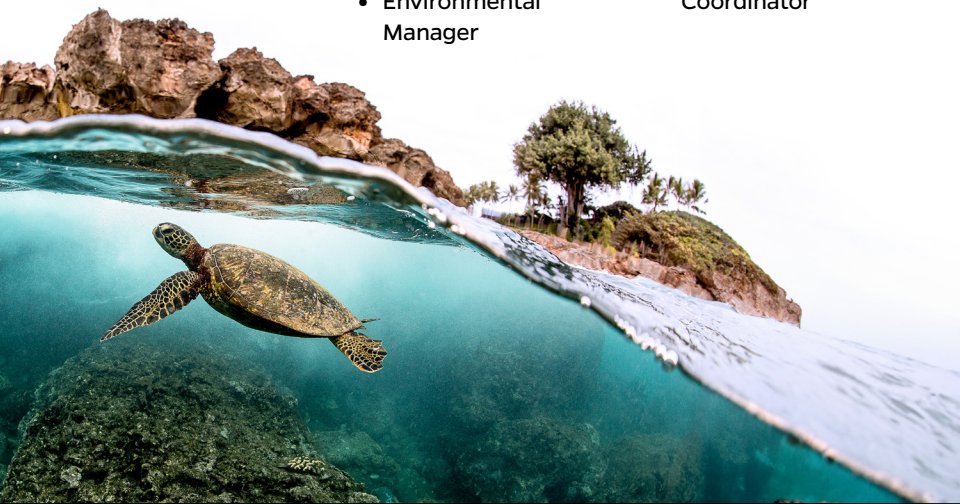





B.S., ENVIRONMENTAL SCIENCE

The School of Natural Resources and Environment also offers a B.A. in Environmental Science that focuses more on social sciences and their applications to policy, management, and economics.

CAREERS

- Climate Change Mitigation Specialist
- Conservation Scientist
- Ecologist
- Environmental Consultant
- Environmental Data Analyst
- Environmental Educator
- Environmental Manager
- Environmental Protection Specialist
- Environmental Research Scientist
- Extension Agent
- Sustainability Coordinator



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



FAMILY, YOUTH AND COMMUNITY SCIENCES

This interdisciplinary and applied social science major prepares students to enter a career in human services, family life education, cooperative extension, research, or community development in a public, private, or nonprofit organization. Family, Youth and Community Sciences (FYCS) students learn about communities, individuals, and families throughout their lifespan, building a foundation of knowledge and intervention skills to prevent or remedy interpersonal problems, as well as develop programs to assist in the development of all ages of people.

FYCS.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

FAMILY, YOUTH AND COMMUNITY SCIENCES

CAREERS

- Advocate/Lobbyist
- Child and Family Service Provider
- Extension Agent
- Family Law
- Family Life Educator
- Financial Literacy
- Health Professions
- Individual and Family Counselor
- Nonprofit Leadership
- Youth Development Programs
- Youth Educator

DISCOVER MORE

- Related Minors: Family, Youth and Community Sciences; Nonprofit Organizational Leadership
- Student Organizations: Family, Youth and Community Sciences Club; Florida Collegiate 4-H; FYCS Graduate-Undergraduate Mentoring Program
- Study abroad in Ireland, Greece, or Belize
- All FYCS majors complete a practical work experience, giving them hands-on experience to be more competitive in the post-graduation job market.
- The FYCS major prepares students to enter a variety of graduate and professional programs in social science, health and human development, various medical fields, and law, among others.



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



FOOD AND RESOURCE ECONOMICS

Through curriculum and experiential learning, students develop the skills to analyze policy implications for businesses, environmental problems for society, and financial scenarios in globalized markets. The agricultural and natural resource contextual emphasis allows students to meet the needs of local, state, national, and global communities. Food and Resource Economics students study sales, finance, marketing, management, environmental policy, law, international trade, math, and economics.

FRED.IFAS.UFL.EDU

FOOD AND RESOURCE ECONOMICS

CONCENTRATIONS

- Food and Agribusiness Marketing and Management
- International Food and Resource Economics

CAREERS

- Account Manager
- Credit Analyst
- Data Analyst
- Entrepreneur
- Lawyer
- Loan Officer
- Policy Advisor
- Pricing Strategy Analyst
- Production Supervisor
- Supply Chain Manager

DISCOVER MORE

- Related Minors: Agricultural and Natural Resource Ethics and Policy; Agricultural and Natural Resource Law; Food and Resource Economics; International Development and Humanitarian Assistance; Management and Sales in Agribusiness
- Student Organization: Agricultural Economics Club
- Student teams compete at the National Agri-Marketing Association Student Marketing Competition and Academic Quiz Bowl competitions at the Agricultural and Applied Economics Association and Southern Agricultural Economics Association annual conferences.
- Students also sharpen their skills related to data analysis, entrepreneurship, business strategy, agribusiness marketing, and risk analysis.

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FOOD SCIENCE

This major uses engineering, biological, and physical sciences to study the nature of foods, the causes of food deterioration, the principles underlying food processing, and the development and improvement of food for consumption. Food Science students study organic and food chemistry, biology, food engineering, microbiology, physics, and food regulations.

FSHN.IFAS.UFL.EDU

FOOD SCIENCE




CAREERS

- Brewer
- Flavor Chemist
- Food Biotechnologist
- Food Safety Inspector
- Processing Plant Manager
- Product Development Director
- Public Health Analyst
- Quality Control Manager
- Regulatory and Compliance Manager
- Sales Representative
- Sensory Analyst

DISCOVER MORE

- Related Minors: Food Science, Nutritional Sciences
- Student Organizations: Food Science and Human Nutrition Club, Students Eat Right
- Study abroad in France, Greece, or Italy
- Curriculum for this major is approved by the Institute of Food and Technologists.
- State-of-the-art facilities include a commercial grade test kitchen, sensory laboratory, and product development pilot plants.



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

FOREST RESOURCES AND CONSERVATION

Providing a solid understanding of ecology, this major prepares students to manage and develop forest areas for economic, recreational, and ecological purposes. Forest Resources and Conservation students study natural resource management and analysis, forest ecology, wetlands management, soil science, plant identification, law and policy, fire management, and natural resource economics.

[FFGS.IFAS.UFL.EDU](https://ffgs.ifas.ufl.edu)

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

FOREST RESOURCES AND CONSERVATION

CAREERS

- Environmental Consultant
- Forest Resources Manager
- Forest Restoration Specialist
- Hydrologist
- Park Service Specialist
- Rangeland Manager
- Recreation Specialist
- Urban Forester




CERTIFICATES

- Environmental Policy, Law, and Regulation
- Fire Ecology and Management
- Recreation Resources Management
- Urban Forestry

DISCOVER MORE

- Related Minor: Forest Resources and Conservation
- Student Organizations: Forestry Club, Society of American Foresters
- Only four-year forestry program in Florida nationally accredited by the Society of American Foresters
- The 2,600-acre Austin Cary Forest near Gainesville provides students with an outdoor laboratory for forest resource education, demonstration, and research



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GEOMATICS

Geomatics professionals collect, manage, and analyze geospatial data through ground surveying, photogrammetry, remote sensing, satellite positions, inertial measurements, echo-sounding, and laser scanning. Geomatics students study geometry, statistics, boundary law, and surveying and mapping instrument usage.

FFGS.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

GEOMATICS

SPECIALIZATIONS

- Geospatial Analysis
- Surveying and Mapping

CAREERS




- Cartographer
- Digital Mapping Specialist
- Geographic Information Systems (GIS) Analyst
- Geospatial Intelligence Analyst
- Land Information Consultant
- Land Surveyor
- Photogrammetric Mapper
- Unmanned Aerial Vehicle (UAV) Pilot

DISCOVER MORE

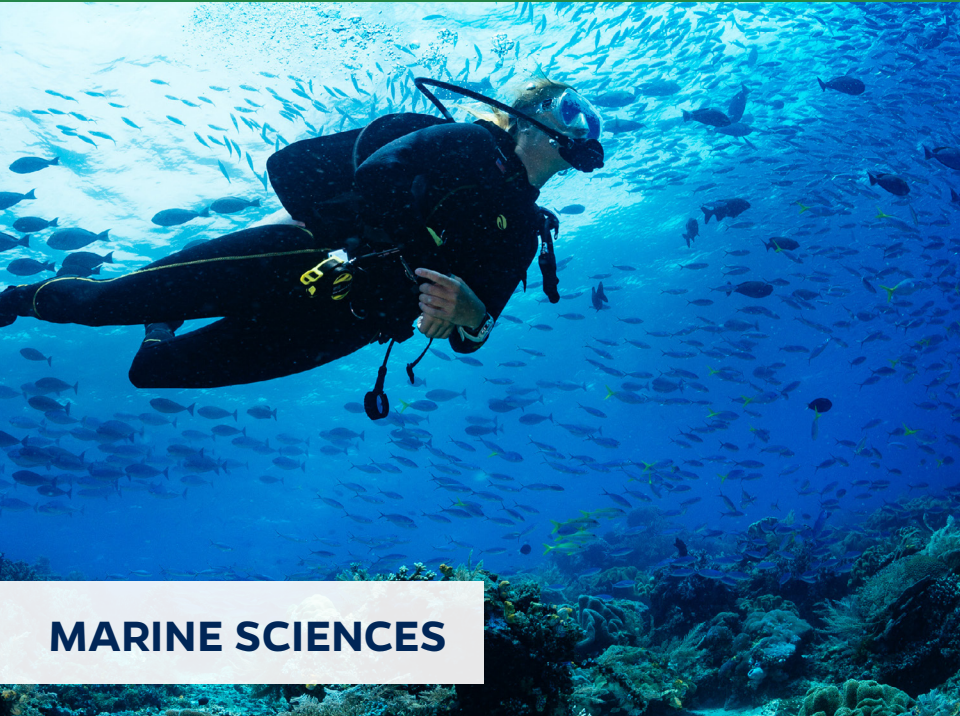
- Students are active participants in taking and analyzing measurements using the latest technology, including drones and infrared cameras.
- Related Certificates: Geomatics; Mapping with Small Unmanned Aerial Systems
- Student Organizations: Geomatics Student Association
- Florida's largest and longest running 4-year AEBT-accredited degree program in Geomatics

*Offered in Gainesville,
Fort Lauderdale, and Plant City.*



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MARINE SCIENCES

From oceans to coastal wetlands, students will learn about marine organisms, their behaviors, and their interactions with the environment. Marine Sciences students study oceanography, statistics, fisheries, marine ecology, and invertebrate biodiversity. Students can focus elective courses on ecology, organismal biology, economics, human dimensions, and quantitative or professional skills.

FFGS.IFAS.UFL.EDU

MARINE SCIENCES




CAREERS

- Aquaculture Specialist
- Ecotourism Manager
- Environmental Consultant
- Marine Biologist
- Marine Resource Ecologist
- Protected Species Manager
- Research Scientist
- Science Educator
- Scientific Diver

DISCOVER MORE

- Related Minor: Fisheries and Aquatic Sciences
- Student Organizations: Marine Biology Club, Salty Gators, Gator SCUBA Club, Aquariums and Aquaculture Club
- Study abroad in the United Kingdom
- This major is shared between two UF colleges. The core of the major is the same, with CALS Marine Sciences focusing on communication skills in addition to science.



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



MICROBIOLOGY AND CELL SCIENCE

Microbiology and Cell Science, the study of small living organisms, emphasizes molecular biology and genetics; immunology; virology; host-pathogen interactions; cellular ultrastructure; environmental microbiology; and microbial physiology, metabolism, and regulation. Microbiology and Cell Science students also study chemistry, physics, bacterial pathogens, and genetics.

[MICROCELL.UFL.EDU](https://microcell.ufl.edu)

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

MICROBIOLOGY AND CELL SCIENCE

CAREERS




- Biotechnologist
- Clinical Microbiologist or Immunologist
- Dentist, Doctor, Pharmacist, or Veterinarian
- Food Microbiologist
- Medical Technologist
- Microbiology Technician
- Molecular Biologist
- Public Health Scientist
- Quality Assurance Manager
- Quality Control Analyst
- Research Scientist

DISCOVER MORE

- Related Minors: Bioinformatics, Pathogenesis
- Student Organizations: American Society for Microbiology Gators, Virology Club
- Study abroad in France, Germany, the Netherlands, or Switzerland
- This major is shared between two UF colleges. The core of the major is the same, with CALS Microbiology and Cell Science focusing on communication skills in addition to science.
- This major satisfies academic requirements for professional school programs in medicine, dentistry, veterinary medicine, pharmacy, and other health-related programs.

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NATURAL RESOURCE CONSERVATION

Conservationists protect and sustain our world's natural resources for future generations. Well-versed in economics and communications, Natural Resource Conservation students are equipped with strong analytical, critical thinking, and leadership skills. Students study the biology, ecology, chemistry, and human dimensions of forest, wildlife, fisheries, and aquatic resources.

FFGS.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



NATURAL RESOURCE CONSERVATION




CAREERS

- Conservation Biologist
- Ecologist
- Ecological Restoration Manager
- Environmental Consultant
- Environmental Educator
- Natural Areas Guide
- Natural Resource Policy Advisor
- Park Ranger
- Protected Areas Manager

DISCOVER MORE

- Related Minor: Forest Resources and Conservation
- Student Organization: Natural Resources Diversity Initiative
- The flexible curriculum in this major allows students to tailor courses to fit their individual interests and career aspirations.
- Students choose a faculty advisor in either the School of Forest, Fisheries, and Geomatics Sciences or the Department of Wildlife Ecology and Conservation.



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NUTRITIONAL SCIENCES

Nutritional Sciences encompass all aspects of the consumption and utilization of food by people and animals as well as how these processes affect the health of individuals and populations. Students study organic chemistry, physics, food science, genetics, and nutrition.

FSHN.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

NUTRITIONAL SCIENCES

CAREERS

- Biochemist
- Doctor, Veterinarian, Pharmacist, or Dentist
- Nutrition Educator
- Pharmaceutical Sales Representative
- Public Policy Consultant
- Research Scientist
- Sports Nutritionist

DISCOVER MORE

- Related Minors: Food Sciences, Nutritional Sciences
- Student Organizations: Food Science and Human Nutrition Club, The Campus Kitchens Project
- Study abroad in France, Greece, and Italy
- State-of-the-art facilities include a commercial grade test kitchen and human nutritional research facility.



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PLANT SCIENCE

Plant scientists sustain and improve our current and future world as they work in careers connected to foods, fibers, fuels, pharmaceuticals, ornamental plants, managed landscapes, and native ecosystems. Students study biology, genetics and biotechnology, ecology, plant physiology, pests and diseases, and sustainable agriculture. Plant Science students develop an interdisciplinary perspective on the science of plant production and its applications for managing plants in human and natural systems.

[PLANTSCIENCE.IFAS.UFL.EDU](https://plantscience.ifas.ufl.edu)

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

PLANT SCIENCE




CAREERS

- Biological Scientist
- Extension Agent
- Food Systems Educator
- Greenhouse Manager
- Landscape Manager
- Plant Geneticist
- Plant Pathologist
- Restoration Ecologist
- Sports Turf Manager
- Sustainable Food Producer

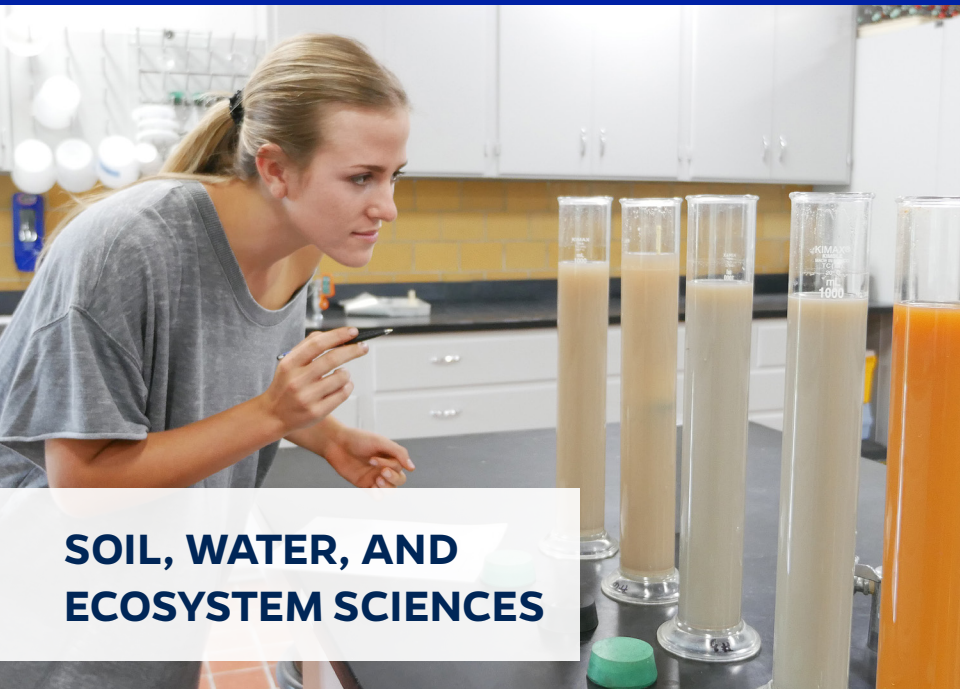
DISCOVER MORE

- Related Minors: Entomology and Nematology; Golf and Sports Turf Management; Organic and Sustainable Crop Production; Plant Molecular and Cellular Biology; Plant Science; Soil, Water, and Ecosystem Sciences
- Available Certificates: Agroecology and Sustainable Food Systems; Beekeeping; Horticultural Therapy; Landscape Pest Management
- Student Organizations: Environmental Horticulture Club, Horticultural Sciences Student Club, MANRRS, Organic and Sustainable Agriculture Club
- Students will enhance in-class learning with hands-on, guided internships in research laboratories, agricultural fields, native ecosystems, greenhouses, public gardens, and more.



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SOIL, WATER, AND ECOSYSTEM SCIENCES

Soil, Water, and Ecosystem Sciences involves managing land and water resources across a wide range of ecosystems, including agricultural, forested, range, urban, and wetland. Students strengthen their knowledge of science through hands-on learning in the lab and in the field. The major prepares students with skills to address real-world challenges in soil and water resource management and make a positive impact on the environment.

SOILS.IFAS.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

SOIL, WATER, AND ECOSYSTEM SCIENCES

SPECIALIZATIONS

- Soil Science
- Water Science






CAREERS

- Erosion Control Specialist
- Hydrologist
- Policy Analyst
- Reclamation Specialist
- Research Scientist
- Resource Conservationist
- Soil Chemist
- Soil Conservationist
- Water Quality Manager
- Water Resource Manager

DISCOVER MORE

- Related Minors: Environmental Science; Soil, Water, and Ecosystem Sciences
- Student Organizations: Agronomy and Soils Club; Wetlands Club
- Students can become Certified Professional Soil Scientists through the Soil Science Society of America or Wetland Professionals in Training through the Society of Wetland Scientists.



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WILDLIFE ECOLOGY AND CONSERVATION

This major focuses on developing students' knowledge of the conservation and management of wildlife and habitats for the greatest aesthetic, ecological, economic, and recreational values. Students in the Wildlife Ecology and Conservation major study biology, chemistry, ecology, calculus, soil science, plant taxonomy, entomology, geography, zoology, and sustainability.

WEC.UFL.EDU

COLLEGE OF AGRICULTURAL AND LIFE SCIENCES

WILDLIFE ECOLOGY AND CONSERVATION



SPECIALIZATIONS

- Pre-professional*
- Wildlife Ecology and Conservation

**Satisfies academic requirements for professional school programs in medicine, dentistry, veterinary medicine, pharmacy, and other health-related programs.*




CAREERS

- Conservation Biologist
- Dentist, Doctor, Pharmacist, or Veterinarian
- Environmental Consultant
- Environmental Educator
- Natural Resource Manager
- Nuisance Wildlife Technician
- Park Naturalist
- Research Scientist
- Wildlife Biologist

DISCOVER MORE

- Related Minor: Wildlife Ecology and Conservation
- Student Organizations: Gators Ready for Exceptional Birding Experiences, Natural Resources Diversity Initiative, The Wildlife Society
- Study abroad in Botswana, Ecuador/ Galapagos Islands, or Eswatini
- Course locations include the UF Natural Area Teaching Lab and the Ordway-Swisher Biological Station.
- Students are able to become certified wildlife biologists through this program.



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COLLEGE OF AGRICULTURAL AND LIFE SCIENCES



PRE-PROFESSIONAL MAJORS

**The College of Agricultural and Life Sciences
offers six pre-professional, or pre-health, majors:**

- Animal Sciences
- Biology
- Entomology and Nematology
- Microbiology and Cell Science
- Nutritional Sciences
- Wildlife Ecology and Conservation

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PRE-PROFESSIONAL MAJORS

Admission to health-related programs, such as medicine, dentistry, veterinary medicine, pharmacy, and others, requires applicants to complete specific basic science courses, which are part of the curriculum in all six CALS pre-professional majors.

Any major can be a pre-health major with careful planning. The best pre-health major for you is one that aligns with your individual strengths, interests, and personality. Professional schools evaluate students on the rigor of courses and the number of credits taken per semester. Visit cals.ufl.edu/pre-health for suggested course timelines to develop an individual academic plan.

RESOURCES




CALS Pre-Health Advising

- The College of Agricultural and Life Sciences has a dedicated advisor for pre-health students.
- Visit cals.ufl.edu/pre-health to schedule an appointment.

UF Pre-Health Advising

- The University of Florida has a team of advisors who can help with questions about preparing for a health-related career.
- Visit advising.ufl.edu/pre-health to schedule an appointment.



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