College of Agriculture and Life Sciences

Agriculture is a diverse industry that touches all of us in many ways. The life sciences provide foundations for studying life and the role of plants and animals in the environment. Academic programs in the college represent a unique blending of the agriculture and life sciences. The College of Agriculture and Life Sciences (CALS) offers specialized majors in agriculture and life sciences that prepares graduates for fulfilling careers in industry, academia, government, or nonprofits, or for graduate or professional programs.

The goals of the instructional programs in CALS include proving relevant, scientific, and practical knowledge of the food, agricultural, and life sciences to its students. With the support of highly qualified and accomplished faculty, students are able to achieve their greatest personal and professional potential. Central to the college's goals is the cultivation of interdisciplinary problem-solving skills that will serve its graduates well as they pursue a lifetime of learning and professional experiences.

What sets our college apart:

- Student activities such as the representing your college and serving on the Agri-Life Council or becoming a CALS Ambassador and gaining professional and hands-on experience in the agriculture and life sciences world
- Nationally-recognized honors societies that allow academicallystrong students to further their education
- Honors Program inspires students to take ownership of their education, explore their passions and pursue their academic goals beyond the classroom
- Approximately 620 scholarships awarded to CALS students each year based on merit, financial need, academic major and/ or outside interests

For more information about our college, including contact information, visit our website (https://cals.ncsu.edu/).

Contact

111 Patterson Hall NCSU Box 7642 Raleigh, NC 27695-7642 Phone: 919.515.2614 Fax: 919.515.5266 cals_programs@ncsu.edu

Faculty

Dean

Garey Fox, Dean

Senior Associate Dean

Megan Jacob, Administration

Associate Dean

David Crouse, Director of Academic Programs

David Monks, Vice Provost for Outreach and Engagement, Interim Associate Dean and Director of NC State Extension

Sarah Kirby, Interim Associate Dean and Director of NC State Extension

Steven A. Lommel, Director, NC Agricultural Research Service

Assistant Dean

Rebecca B. Zuvich, CALS Human Resources

Executive Director

Kathy Kennel, NC Agricultural Foundation

Chief Communications Officer

Megan Lybrand

Directors

Joanna Eglinton, Prospective Student Services

Sara Lane, Career Services

Tricia M. Buddin, Student Services

Robert Ivy, Agricultural Institute

Assistant Director

Robert Ivy, Assistant Director of Academic Programs

Departments

- Agricultural Institute (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/agricultural-institute/)
- Department of Agricultural and Human Sciences (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agriculturalhuman-sciences/)
- Department of Agricultural and Resource Economics (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agriculturalresource-economics/)
- Department of Animal Science (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/animal-science/)
- Department of Applied Ecology (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/applied-ecology/)
- Department of Biological and Agricultural Engineering (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biologicalagricultural-engineering/)
- Department of Crop and Soil Sciences (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/crop-soil-sciences/)

- Department of Entomology and Plant Pathology (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ entomology-plant-pathology/)
- Department of Food, Bioprocessing and Nutrition Sciences (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-bioprocessing-nutrition-science/)
- Department of Horticultural Science (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/horticultural-science/)
- Department of Molecular and Structural Biochemistry (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/molecularstructural-biochemistry/)
- Department of Plant and Microbial Biology (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/plant-microbial-biology/)
- Life Sciences First Year (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/life-sciences-first-year/)
- North Carolina Cooperative Extension Service (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ northcarolinacooperativeextensionservice/)
- Prestage Department of Poultry Science (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/poultry-science/)

Majors

- Agribusiness Management (AAS) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-institute/ agribusiness-management-aas/)
- Agricultural Business Management (BS) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-resourceeconomics/agricultural-business-management-bs/)
- Agricultural Business Management (BS): Biological Sciences
 Concentration (http://catalog.ncsu.edu/undergraduate/agriculture life-sciences/agricultural-resource-economics/agricultural-business management-bs-biological-sciences-concentration/)
- Agricultural Education (BS): Agricultural Business Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ agricultural-human-sciences/agricultural-education-bs-agriculturalbusiness-concentration/)
- Agricultural Education (BS): Agricultural Engineering Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculturelife-sciences/agricultural-human-sciences/agricultural-education-bsagricultural-engineering-technology-concentration/)
- Agricultural Education (BS): Agronomy Concentration (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agriculturalhuman-sciences/agricultural-education-bs-agronomy-concentration/)
- Agricultural Education (BS): Animal Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-human-sciences/agricultural-education-bs-animal-science-concentration/)
- Agricultural Education (BS): Horticultural Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ agricultural-human-sciences/agricultural-education-bs-horticulturalscience-concentration/)
- Agricultural Education (BS): Natural Resources Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-human-sciences/agricultural-education-bs-natural-resources-concentration/)
- Agricultural Education (BS): Poultry Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-

- human-sciences/agricultural-education-bs-poultry-science-concentration/)
- Agricultural Science (BS) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/agricultural-human-sciences/agriculturalscience-bs/)
- Agricultural Science (BS): Online (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-human-sciences/ agricultural-science-bs-online/)
- Agroecology & Sustainable Food Systems (BS): Agroecology Research & Production Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/crop-soil-sciences/ agroecology-sustainable-food-systems-bs-agroecology-researchproduction-concentration/)
- Agroecology & Sustainable Food Systems (BS): Community Food Systems Concentration (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/crop-soil-sciences/agroecology-sustainablefood-systems-bs-community-food-systems-concentration/)
- Agroecology & Sustainable Food Systems (BS): Urban Horticulture
 Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/agroecology-sustainable-food-systems-bs-urban-horticulture-concentration/)
- Animal Science (BS): Industry Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/animal-science/animalscience-bs-industry-concentration/)
- Animal Science (BS): Science Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/animal-science/animalscience-bs-science-concentration/)
- Animal Science (BS): Veterinary Bioscience Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/animal-science/animal-science-bs-veterinary-bioscience-concentration/)
- Biochemistry (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/molecular-structural-biochemistry/biochemistry-bs/)
- Biological and Agricultural Engineering Technology (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-technology-bs/)
- Biological and Agricultural Engineering Technology (BS): Agricultural Systems Management Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/biological-agriculturalengineering/biological-agricultural-engineering-technology-bsagricultural-systems-management-concentration/)
- Biological and Agricultural Engineering Technology (BS): Environmental Systems Management Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-technology-bs-environmental-systems-management-concentration/)
- Biological Engineering (BS): Agricultural Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ biological-agricultural-engineering/biological-engineering-bsagricultural-engineering-concentration/)
- Biological Engineering (BS): Bioprocessing Engineering
 Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs-bioprocessing-engineering-concentration/)
- Biological Engineering (BS): Ecological Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs-ecological-engineering-concentration/)

- Biological Engineering (BS): Environmental Engineering
 Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs-environmental-engineering-concentration/)
- Biological, Agricultural, and Ecological Engineering (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs/)
- Bioprocessing Science (BS) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/food-bioprocessing-nutrition-science/ bioprocessing-science-bs/)
- Crop and Soil Sciences (BS): Agronomy (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/crop-soil-sciences/crop-soilsciences-bs-agronomy/)
- Crop and Soil Sciences (BS): Crop Biotechnology (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/crop-soil-sciences-bs-crop-biotechnology-semester/)
- Crop and Soil Sciences (BS): Soil Science (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/crop-soil-sciences/crop-soilsciences-bs-soil-science/)
- Crop and Soil Sciences (BS): Turfgrass Science (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/turfgrass-science-bs/)
- Field Crops Technology (AAS) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-institute/fieldcrops-technology-aas/)
- Food Science (BS): Business & Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-bioprocessing-nutrition-science/food-science-bs-business-technology-concentration/)
- Food Science (BS): Science Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/food-bioprocessing-nutritionscience/food-science-bs-science-concentration/)
- General Agriculture (AAS) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/agricultural-institute/general-agriculture-aas/)
- Horticultural Science (BS): Landscape Design, Construction, and Management Concentration (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/horticultural-science/horticultural-science-bslandscape-design-construction-management-concentration/)
- Horticultural Science (BS): Plant Breeding and Biotechnology in Horticulture Concentration (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/horticultural-science/horticultural-science-bsplant-breeding-biotechnology-horticulture-concentration/)
- Horticultural Science (BS): Production Systems and Entrepreneurship in Horticulture Concentration (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/horticultural-science/horticultural-science-bsproduction-systems-entrepreneurship-horticulture-concentration/)
- Horticultural Science Management (AAS): Ornamentals and Landscape Technology Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-institute/ horticultural-science-management-aas-ornamentals-landscapetechnology-concentration/)
- Horticultural Science Management (AAS): Small Scale Farming Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-institute/horticultural-science-management-aassmall-scale-farming-concentration/)
- Life Sciences First Year (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/life-sciences-first-year/)

- Livestock and Poultry Management (AAS) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-institute/livestockpoultry-management-aas/)
- Natural Resources (BS): Soil, Water and Land Use Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ crop-soil-sciences/natural-resources-bs-soil-water-land-useconcentration/)
- Nutrition Sciences (BS) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/food-bioprocessing-nutrition-science/ nutrition-sciences-bs/)
- Nutrition Sciences (BS): Applied Nutrition Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-bioprocessing-nutrition-science/nutrition-sciences-bs-applied-nutrition-concentration/)
- Plant Biology (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/plant-microbial-biology/plant-biology-bs/)
- Poultry Science (BS): Science Concentration (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/poultry-science/poultryscience-bs-science-concentration/)
- Poultry Science (BS): Technology Concentration (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/poultry-science/poultry-science-bs-technology-concentration/)
- Turfgrass Management (AAS) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-institute/turfgrassmanagement-aas/)

Minors

- Agricultural Business Management (Minor) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-resourceeconomics/agricultural-business-management-minor/)
- Agricultural Entrepreneurship (Minor) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-resourceeconomics/agricultural-entrepreneurship-minor/)
- Agroecology (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/crop-soil-sciences/agroecology-minor/)
- Animal Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/animal-science/animal-science-minor/)
- Applied Ecology (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/applied-ecology/applied-ecology-minor/)
- Biological and Agricultural Engineering Technology (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/agricultural-environmental-technology-minor/)
- Biotechnology (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/plant-microbial-biology/biotechnology-minor/)
- Brewing Science and Technology (Minor) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/food-bioprocessing-nutritionscience/brewing-science-technology-minor/)
- Crop Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/crop-soil-sciences/crop-science-minor/)
- Entomology (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/entomology-plant-pathology/entomologyminor/)
- Extension Education (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/agricultural-human-sciences/extensioneducation-minor/)
- Feed Milling (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/poultry-science/feed-milling-minor/)

- Food Safety and Quality (Minor) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/food-bioprocessing-nutritionscience/food-safety-quality-minor/)
- Food Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/food-bioprocessing-nutrition-science/foodscience-minor/)
- Horticultural Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/horticultural-science/horticultural-scienceminor/)
- Leadership in Agriculture and Life Sciences (Minor) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agriculturalhuman-sciences/leadership-agriculture-life-sciences-minor/)
- Nutrition (Minor) (http://catalog.ncsu.edu/undergraduate/agriculturelife-sciences/food-bioprocessing-nutrition-science/nutrition-minor/)
- Plant Biology (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/plant-microbial-biology/plant-biology-minor/)
- Poultry Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/poultry-science/poultry-science-minor/)
- Soil Science (Minor) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/crop-soil-sciences/soil-science-minor/)
- Turfgrass (Minor) (http://catalog.ncsu.edu/undergraduate/agriculturelife-sciences/crop-soil-sciences/turfgrass-minor/)

Certificates

- Agribusiness Management (Certificate) (Distance Education) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-institute/agribusiness-management-certificate-distance-education/)
- Agricultural Business Management (Certificate) (For Post-Baccalaureate Students, Distance Education) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-resource-economics/agricultural-business-management-certificate-post-baccalaureate-students-distance-education/)
- Agricultural Business Management (Certificate) (Non Post-Baccalaureate Students, Distance Education) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-resource-economics/agricultural-business-management-certificate-distance-education/)
- Agricultural Leadership (Certificate) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/agricultural-human-sciences/ agricultural-leadership-certificate/)
- Animal Nutrition (Certificate) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/animal-science/animal-nutrition-certificate/)
- Crop Science Certificate (Distance Education) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soilsciences/crop-science-certificate-distance-education/)
- Feed Milling (Certificate) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/poultry-science/feed-milling-certificate/)
- Field Botany (Certificate) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/plant-microbial-biology/field-botanycertificate/)
- Food Safety & Quality Management (Certificate) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/foodbioprocessing-nutrition-science/food-safety-quality-managementcertificate/)
- Fundamentals of Entomology (Certificate) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/entomology-plant-pathology/ fundamentals-entomology-certificate/)

- Horticulture (Undergraduate Certificate) (http://catalog.ncsu.edu/ undergraduate/agriculture-life-sciences/horticultural-science/ horticulture-undergraduate-certificate/)
- Plant Pests, Pathogens, and People (Certificate) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ entomology-plant-pathology/plant-pests-pathogens-peoplecertificate/)
- Regulatory Science in Agriculture (Certificate) (http:// catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soilsciences/ag-regulatory-science-certificate/)
- Soil Science (Certificate) (http://catalog.ncsu.edu/undergraduate/ agriculture-life-sciences/crop-soil-sciences/soil-science-certificate/)