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 academically-strong 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
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Phone: 919.515.2614
Fax: 919.515.5266
cals_programs@ncsu.edu

Faculty

Dean

John M. Dole, Interim Dean

Senior Associate Dean

Harry Daniels, Administration

Associate Dean

A. Richard Bonanno, Director, NC Cooperative Extension
John M. Dole, Director of Academic Programs
Steven A. Lommel, Director, NC Agricultural Research Service

Assistant Dean

Joyce L. Munro, Business Operations
Sonia Murphy, College Advancement
Rebecca B. Zuvich, CALS Human Resources

Executive Director

Kathy Kennel, NC Agricultural, Dairy, and Tobacco Foundations

Chief Communications Officer

Richard Campbell

Directors

Tricia M. Buddin, Student Services
Alex K. Graves, Interim Director, CALS Office of Diversity Affairs
Robert Ivy, Agricultural Institute
Kevin F. Lee, Information Technology

Assistant Director

Kimberly Allen, Academic Programs

Robert Ivy, 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/agricultural-human-sciences/)
• Department of Agricultural and Resource Economics (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-resource-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/biological-agricultural-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/molecular-structural-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://ncstate.edu/cooperativeextension)
• Prestige 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-resource-economics/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 Engineering Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-human-sciences/agricultural-education-bs-agricultural-engineering-technology-concentration/)
• Agricultural Education (BS): Agronomy Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-human-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-horticultural-science-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/agricultural-science-bs/)
• 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-research-production-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/animal-science-bs-industry-concentration/)
• Animal Science (BS): Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/animal-science/animal-science-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-agricultural-engineering/biological-agricultural-engineering-technology-bs-agricultural-systems-management-concentration/)
• Biological Engineering (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs/)
• Biological Engineering (BS): Agricultural Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/biological-engineering-bs-agricultural-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/)
- 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-soil-
sciences-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-soil-
sciences-bs-soil-science/)
- Crop and Soil Sciences (BS): Turfgrass Science (http://
catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-
sciences/turfgrass-science-bs/)
- Department of Agricultural and Human Sciences (http://
catalog.ncsu.edu/undergraduate/agriculture-life-sciences/ags-
human-sciences/)
- Field Crops Technology (AAS) (http://catalog.ncsu.edu/
undergraduate/agriculture-life-sciences/agricultural-institute/field-
crops-technology-aas/)
- Food Science (BS): Science Concentration (http://catalog.ncsu.edu/
undergraduate/agriculture-life-sciences/food-bioprocessing-nutrition-
science/food-science-bs-science-concentration/)
- Food Science (BS): Technology Concentration (http://
catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-
bio-processing-nutrition-science/food-science-bs-technology-
concentration/)
- General Agriculture (AAS) (http://catalog.ncsu.edu/undergraduate/
agriculture-life-sciences/agricultural-institute/general-agriculture-aas/)
agriculture-life-sciences/horticultural-science/horticultural-science-bs-
landscape-design-gardens-urban-environments-concentration/)
- Horticultural Science (BS): Plant Breeding and Biotechnology in Horticulture Concentration (http://catalog.ncsu.edu/undergraduate/
agriculture-life-sciences/horticultural-science/horticultural-science-bs-
plant-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-bs-
production-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-landscape-
technology-concentration/)
- Horticultural Science Management (AAS): Small Scale Farming Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-
sciences/agricultural-institute/horticultural-science-management-aas-
small-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/livestock-
poultry-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-use-
concentration/)
- 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-
bio-processing-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/poultry-
science-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/turfgrass-
management-aas/)

Minors

- Agricultural Business Management (Minor) (http://catalog.ncsu.edu/
undergraduate/agriculture-life-sciences/agricultural-resource-
economics/agricultural-business-management-minor/)
- Agricultural Entrepreneurship (Minor) (http://catalog.ncsu.edu/
undergraduate/agriculture-life-sciences/agricultural-resource-
economics/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-nutrition-
science/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/entomology-
minor/)
- Extension Education (Minor) (http://catalog.ncsu.edu/undergraduate/
agriculture-life-sciences/agricultural-human-sciences/extension-
education-minor/)
• Feed Milling (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/poultry-science/feed-milling-minor/)
• Food Science (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-bioprocessing-nutrition-science/food-science-minor/)
• Horticultural Science (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/horticultural-science-minor/)
• Leadership in Agriculture and Life Sciences (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/leadership-agriculture-life-sciences-minor/)
• Nutrition (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-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/agriculture-life-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-soil-sciences/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-botany-certificate/)
• 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/)
• Regulatory Science in Agriculture (Certificate) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/ag-regulatory-science-certificate/)
• Soil Science (Certificate) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/soil-science-certificate/)
• Swine Science (Certificate) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/animal-science/swine-science-certificate/)