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/).

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Faculty

Dean and Executive Director for Agricultural Programs
Richard H. Linton

Senior Associate Dean for Administration
Harry Daniels

Associate Dean and Director of Academic Programs
John M. Dole

Associate Dean and Director, NC Agricultural Research Service
Steven A. Lommel

Associate Dean and Director of NC Cooperative Extension
A. Richard Bonanno

Assistant Dean of College Advancement
Sonia Murphy

Executive Director of NC Agricultural, Dairy, and Tobacco Foundations
Kathy Kennel

Assistant Dean for Business Operations
Joyce L. Munro

Assistant Dean of CALS Human Resources
Rebecca B. Zuvich

Chief Communications Officer, CALS Communications
Richard Campbell

Interim Director of CALS Office of Diversity Affairs
Alex K. Graves

Director, Agricultural Institute and Assistant Director of Academic Programs
Elizabeth B. Wilson

Director, Information Technology
Kevin F. Lee

Director of Student Services
Tricia M. Buddin
Assistant Director of Academic Programs
Vicki J. Martin

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://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/northcarolinacooperativeextensionservice/)
- 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/agribusiness-management-aas/)
- Agricultural Business Management (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-resource-economics/agricultural-business-management-bs/)
- 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): 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 Science (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-human-sciences/agricultural-science-bs/)
- 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/bs/)

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• Biological and Agricultural Engineering Technology (BS): Environmental Systems Management Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/environmental-systems-management-concentration/)

• Biological Engineering (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-engineering/)

• Biological Engineering (BS): Agricultural Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/)

• Biological Engineering (BS): Ecological Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/)

• Biological Engineering (BS): Bioprocessing Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bioprocessing-engineering-concentration/)

• Biological Engineering (BS): Ecological Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/)

• Biological Engineering (BS): Environmental Engineering Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/environmental-engineering-concentration/)

• Bioprocessing Science (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bioprocessing-science-bs/)

• Crop and Soil Sciences (BS): Agronomy (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/)

• Crop and Soil Sciences (BS): Crop Biotechnology (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/crop-biotechnology/)

• Crop and Soil Sciences (BS): Soil Science (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/crop-soil-sciences/)

• 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/agricultural-human-sciences/)

• Field Crops Technology (AAS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/field-crops-science/)

• Food Science (BS): Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-science-concentration/)

• Food Science (BS): Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/food-science-science-concentration/)

• General Agriculture (AAS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/general-agriculture-aas/)

• Horticultural Science (BS): Landscape Design, Gardens & Urban Environments Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/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): Production Systems and Entrepreneurship in Horticulture Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/)

• Horticultural Science Management (AAS): Ornamentals and Landscape Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/horticultural-science/)

• Livestock and Poultry Management (AAS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/livestock-poultry-management-aas/)

• Natural Resources (BS): Soil, Water and Land Use Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/natural-resources-soil-water-land-use-concentration/)

• Nutrition Sciences (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/nutrition-sciences-bs/)

• Nutrition Sciences (BS): Applied Nutrition Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/nutrition-sciences-science-concentration/)

• Plant Biology (BS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/plant-biology/)

• Poultry Science (BS): Science Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/poultry-science/)

• Poultry Science (BS): Technology Concentration (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/poultry-science/)

• Turfgrass Management (AAS) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/turfgrass-management-aas/)

• Agricultural Business Management (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-business-management-minor/)

• Agricultural Entrepreneurship (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agricultural-entrepreneurship-minor/)

• Agroecology (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/agroecology-minor/)

• Animal Science (Minor) (http://catalog.ncsu.edu/undergraduate/agriculture-life-sciences/animal-science-minor/)
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• 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/agricultural-human-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/)

• 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/)

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/)