Graduate

Graduate instruction was first offered at North Carolina State University in 1893, and the first doctoral degree was conferred in 1926. In the ensuing years, the Graduate School has grown steadily and now provides instruction and facilities for advanced study and research in the fields of agriculture and life sciences, design, education, engineering, natural resources, humanities and social sciences, management, physical and mathematical sciences, textiles and veterinary medicine.

The Graduate School is currently composed of more than 2,400 graduate faculty members. Educated at major universities throughout the world and established both in advanced teaching and research, these scholars guide the University’s more than 7,000 master’s and doctoral students from all areas of the U.S. and many other countries. The faculty and students have available exceptional facilities, including libraries, laboratories, modern equipment and special research areas.

Additionally, a cooperative agreement exists among the Graduate Schools of the University of North Carolina at Chapel Hill, the University of North Carolina at Greensboro, Duke University, and North Carolina State University which increases the educational and research possibilities associated with each institution.

The Graduate Catalog contains Graduate School requirements and pertinent information for individual graduate programs, a current list of graduate faculty, and a selection of other resources for new students. The Catalog is informational only and is subject to change. Official policies and procedures are in the Graduate Handbook (http://catalog.ncsu.edu/graduate/graduate-handbook/) and on the NC State Policies, Rules, and Regulations (https://policies.ncsu.edu/) web site.

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Programs and Degrees

A

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B

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C

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• Educational Leadership, Policy and Human Development (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/)

• Educational Leadership, Policy, and Human Development (PhD) (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/education-leadership-policy-human-development-phd/)

• Educational Leadership, Policy, and Human Development (PhD): Counseling and Counselor Education Concentration (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/education-leadership-policy-human-development-phd-counseling-and-counselor-education-concentration/)

• Electric Power System Engineering (http://catalog.ncsu.edu/graduate/engineering/electric-power-system-engineering/)

• Electric Power Systems Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/electric-power-system-engineering/electric-power-systems-engineering-ms/)

• Electric Power Systems Engineering (MS): Internship Concentration (http://catalog.ncsu.edu/graduate/engineering/electric-power-system-engineering/electric-power-systems-engineering-ms-internship-concentration/)

• Electric Power Systems Engineering (MS): Wide Bandgap Power Electronics Concentration (http://catalog.ncsu.edu/graduate/engineering/electric-power-system-engineering/electric-power-systems-engineering-ms-wide-bandgap-power-electronics-concentration/)

• Electrical Engineering (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/)

• Electrical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-certificate/)

• Electrical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-certificate/)

• Electrical Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-minor/)

• Electrical Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-ms/)

• Electrical Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-phd/)

• Elementary Education (http://catalog.ncsu.edu/graduate/education/elementary-education/)

• Elementary Education (MED) (http://catalog.ncsu.edu/graduate/education/elementary-education/elementary-education-med/)

• Elementary Education (MS) (http://catalog.ncsu.edu/graduate/education/elementary-education/elementary-education-ms/)

• Energy and Technology in Architecture (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/energy-technology-architecture-certificate/)

• Energy and Technology in Architecture (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/energy-technology-architecture-certificate/)
• Engineering (http://catalog.ncsu.edu/graduate/engineering/management/mr/)

• Engineering Management (MR) (http://catalog.ncsu.edu/graduate/engineering/management/mr/)

• Engineering Management Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/management/mr/)

• Engineering Management Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/management/mr/)

• Engineering Management Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/management/mr/)

• English (http://catalog.ncsu.edu/graduate/humanities-social-sciences/english/)

• Environmental Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/environmental-engineering/environmental-engineering-mr/)

• Environmental Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/environmental-engineering/environmental-engineering-mr/)

• Environmental Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/environmental-engineering/environmental-engineering-mr/)

• Environmental Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/environmental-engineering/environmental-engineering-mr/)

• Environmental Remote Sensing & Image Analysis (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/environmental-remote-sensing-image-analysis-minor/)

F

• Family Life Education and Coaching (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/family-life-education-coaching-certificate/)

• Family Life Education and Coaching (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/family-life-education-coaching-certificate/)

• Feed Science (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/feed-science-certificate/)
• Feed Science (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/feed-science-certificate/)
• Fiber & Polymer Science (http://catalog.ncsu.edu/graduate/textiles/fiber-polymer-science/)
• Fiber and Polymer Science (PhD) (http://catalog.ncsu.edu/graduate/textiles/fiber-polymer-science/fiber-polymer-science-phd/)
• Finance (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/finance-certificate/)
• Finance (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/finance-certificate/)
• Financial Mathematics (http://catalog.ncsu.edu/graduate/interdisciplinary/financial-mathematics/)
• Financial Mathematics (MR) (http://catalog.ncsu.edu/graduate/interdisciplinary/financial-mathematics/financial-mathematics-mr/)
• Fisheries, Wildlife, and Conservation Biology (http://catalog.ncsu.edu/graduate/interdisciplinary/fisheries-wildlife-conservation-biology/)
• Fisheries, Wildlife, and Conservation Biology (MS) (http://catalog.ncsu.edu/graduate/interdisciplinary/fisheries-wildlife-conservation-biology/fisheries-wildlife-conservation-biology-ms/)
• Fisheries, Wildlife, and Conservation Biology (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/fisheries-wildlife-conservation-biology/fisheries-wildlife-conservation-biology-phd/)
• Food Safety (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/food-safety-minor/)
• Food Science (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/food-science/)
• Food Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/food-science/food-science-minor/)
• Food Science (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/food-science/food-science-mr/)
• Food Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/food-science/food-science-ms/)
• Food Science (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/food-science/food-science-phd/)
• Foreign Language and Literature (http://catalog.ncsu.edu/graduate/humanities-social-sciences/foreign-language-literature/)
• Foreign Language and Literature (MA): French Language and Literature Concentration (http://catalog.ncsu.edu/graduate/humanities-social-sciences/foreign-language-literature/french-language-literature-concentration/)
• Foreign Language and Literature (MA): Spanish Language and Literature Concentration (http://catalog.ncsu.edu/graduate/humanities-social-sciences/foreign-language-literature/spanish-language-literature-concentration/)
• Forest Biomaterials (http://catalog.ncsu.edu/graduate/natural-resources/forest-biomaterials/)
• Forest Biomaterials (MS) (http://catalog.ncsu.edu/graduate/natural-resources/forest-biomaterials/forest-biomaterials-ms/)
• Forest Biomaterials (PhD) (http://catalog.ncsu.edu/graduate/natural-resources/forest-biomaterials/forest-biomaterials-phd/)
• Forestry (Minor) (http://catalog.ncsu.edu/graduate/natural-resources/forestry/forestry-minor/)
• Forestry (MR) (http://catalog.ncsu.edu/graduate/natural-resources/forestry/forestry-mr/)
• Forestry (MS) (http://catalog.ncsu.edu/graduate/natural-resources/forestry/forestry-ms/)
• Forestry and Environmental Resources (http://catalog.ncsu.edu/graduate/natural-resources/forestry/)
• Forestry and Environmental Resources (PhD) (http://catalog.ncsu.edu/graduate/natural-resources/forestry/forestry-environmental-resources-phd/)
• Functional Genomics (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/)
• Functional Genomics (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/functional-genomics-minor/)
• Functional Genomics (MR) (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/functional-genomics-mr/)
• Functional Genomics (MS) (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/functional-genomics-ms/)
• Functional Genomics (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/functional-genomics-phd/)
• Genetic Engineering & Society (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/entomology/genetic-engineering-society-minor/)
• Genetics (http://catalog.ncsu.edu/graduate/interdisciplinary/genetics/)
• Genetics (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/genetics/genetics-minor/)
• Genetics (MR) (http://catalog.ncsu.edu/graduate/interdisciplinary/genetics/genetics-mr/)
• Genetics (MS) (http://catalog.ncsu.edu/graduate/interdisciplinary/genetics/genetics-ms/)
• Genetics (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/genetics/genetics-phd/)
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• Geographic Information Systems (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/geographic-information-systems-minor/)
• Geospatial Analytics (http://catalog.ncsu.edu/graduate/natural-resources/geospatial-analytics/)
• Geospatial Analytics (PhD) (http://catalog.ncsu.edu/graduate/natural-resources/geospatial-analytics/geospatial-analytics-phd/)
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• Geospatial Information Science and Technology (MR) (http://catalog.ncsu.edu/graduate/natural-resources/geospatial-information-science-technology/geospatial-information-science-technology-mr/)
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• Graduate Certificates - College of Education (http://catalog.ncsu.edu/graduate/education/graduate-certificate/)
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• Graphic Design (http://catalog.ncsu.edu/graduate/design/graphic-design/)
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H
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• History (MA) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/history/history-MA/)
• History (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/history/history-minor/)
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• Horticultural Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-minor/)
• Horticultural Science (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-mr/)
• Horticultural Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-ms/)
• Horticultural Science (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-phd/)
• Human Dimensions of Natural Resources (Minor) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/human-dimensions-natural-resources-minor/)

I
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• Industrial Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/industrial-engineering/industrial-engineering-minor/)
• Industrial Engineering (MR) (http://catalog.ncsu.edu/graduate/engineering/industrial-engineering/industrial-engineering-mr/)
• Industrial Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/industrial-engineering/industrial-engineering-ms/)
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• Integrated Manufacturing Systems Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/integrated-manufacturing-systems-engineering/integrated-manufacturing-systems-engineering-minor/)
• Integrated Manufacturing Systems Engineering (http://catalog.ncsu.edu/graduate/engineering/integrated-manufacturing-systems-engineering/)
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• Landscape Architecture (Minor) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-minor/)
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• Learning and Teaching in STEM (PhD) (http://catalog.ncsu.edu/graduate/education/learning-teaching-stem/learning-teaching-stem-phd/)
• Learning Analytics (Certificate) (http://catalog.ncsu.edu/graduate/education/teacher-education/learning-design-technology/learning-design-technology-cert/)
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• Liberal Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/)
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• Learning Design & Technology (http://catalog.ncsu.edu/graduate/education/learning-design-technology/)
• Learning Design & Technology (MEd) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-med/)
• Learning Design & Technology (MS) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-ms/)
• Liberal Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/)
• Liberal Studies (MA) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies-ma/)
• Landscape Architecture (MR) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-mr/)
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• Learning Analytics (Certificate) (http://catalog.ncsu.edu/graduate/education/teacher-education/learning-design-technology/learning-design-technology-cert/)
• Learning and Teaching in STEM (http://catalog.ncsu.edu/graduate/education/learning-design-technology/)
• Learning Design & Technology (http://catalog.ncsu.edu/graduate/education/learning-design-technology/)
• Learning Design & Technology (MEd) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-med/)
• Learning Design & Technology (MS) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-ms/)
• Liberal Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/)
• Liberal Studies (MA) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies-ma/)
• Landscape Architecture (MR) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-mr/)
• Landscape Architecture (MR) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-mr/)
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• Learning & Teaching in STEM (PhD) (http://catalog.ncsu.edu/graduate/education/learning-teaching-stem/learning-teaching-stem-phd/)
• Learning Analytics (Certificate) (http://catalog.ncsu.edu/graduate/education/teacher-education/learning-design-technology/learning-design-technology-cert/)
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• Learning Design & Technology (MEd) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-med/)
• Learning Design & Technology (MS) (http://catalog.ncsu.edu/graduate/education/learning-design-technology/learning-design-technology-ms/)
• Liberal Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/)
• Liberal Studies (MA) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies-ma/)

• Liberal Studies (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/liberal-studies-minor/)

M

• Management (http://catalog.ncsu.edu/graduate/management/management/)
• Management (MR) (http://catalog.ncsu.edu/graduate/management/management/management-mr/)
• Management (MR): Business Analytics and Marketing Concentration (http://catalog.ncsu.edu/graduate/management/management/management-mr-business-analytics-conc/)
• Management (MR): Global Luxury and Management Concentration (http://catalog.ncsu.edu/graduate/management/management/management-mr-global-luxury-management-concentration/)
• Marine, Earth and Atmospheric Sciences (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/)
• Marine, Earth, & Atmospheric Sciences (Minor) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-minor/)
• Marine, Earth, and Atmospheric Sciences (MS) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-ms/)
• Marine, Earth, and Atmospheric Sciences (PhD) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/marine-earth-atmospheric-sciences-phd/)
• Marketing (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/marketing-certificate/)
• Marketing (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/marketing-certificate/)
• Materials Informatics (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-informatics-cert/)
• Materials Science & Engineering (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/)
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• Mathematics (MS) (http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-ms/)
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• Mathematics (PhD): Interdisciplinary Mathematics Concentration (http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-phd-interdisciplinary-mathematics-concentration/)
• Mathematics Education (http://catalog.ncsu.edu/graduate/education/mathematics-education/)
• Mathematics Education (Minor) (http://catalog.ncsu.edu/graduate/education/mathematics-education/mathematics-education-minor/)
• Mathematics Education (MS) (http://catalog.ncsu.edu/graduate/education/mathematics-education/mathematics-education-ms/)
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• Mechanical Engineering (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/)
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N

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• Nuclear Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/nuclear-engineering-ms/)
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• Nutrition (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-phd/)

• Operations and Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/operations-supply-chain-management-certificate/)
• Operations and Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/operations-supply-chain-management-certificate/)
• Operations Research (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/)
• Operations Research (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-minor/)
• Operations Research (MR) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-mr/)
• Operations Research (MS) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-ms/)
• Operations Research (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/operations-research/operations-research-phd/)

• Parks, Recreation and Tourism Management (MS) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/parks-recreation-tourism-management-ms/)
• Parks, Recreation and Tourism Management (PhD) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/parks-recreation-tourism-management-phd/)
• Parks, Recreation, and Tourism Management (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/)
• Parks, Recreation, Tourism and Sports Management (MR) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/parks-recreation-tourism-sport-management-mr/)
• Performance Based Earthquake Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/civil-engineering/performance-based-earthquake-engineering-certificate/)
• Philosophy & Religious Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/philosophy-religious-studies/)
• Physics (http://catalog.ncsu.edu/graduate/sciences/physics/)
• Physics (MS) (http://catalog.ncsu.edu/graduate/sciences/physics/physics-ms/)
• Physics (PhD) (http://catalog.ncsu.edu/graduate/sciences/physics/physics-phd/)
• Physiology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/)
• Physiology (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-minor/)
• Physiology (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-mr/)
• Physiology (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/physiology-ms/)
• Plant Biology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-biology/)
engineering-mathematics-education/education/graduate/physical-sciences/soil-science/soil-science-ms/
- Soil Science (PhD) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/sociology/soil-science-phd/)
- Special Education (http://catalog.ncsu.edu/graduate/education/special-education/)
- Special Education (MED) (http://catalog.ncsu.edu/graduate/education/special-education/special-education-med/)
- Special Education (Minor) (http://catalog.ncsu.edu/graduate/education/special-education/special-education-minor/)
- Special Education (MS) (http://catalog.ncsu.edu/graduate/education/special-education/special-education-ms/)
- Sport and Entertainment Venue Management (Certificate) (http://catalog.ncsu.edu/graduate/education/special-education/special-education-ms/)
- Sport and Entertainment Venue Management (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/sport-entertainment-venue-management-certificate/
- Statistics (http://catalog.ncsu.edu/graduate/sciences/statistics/)
- Statistics (Minor) (http://catalog.ncsu.edu/graduate/sciences/statistics/statistics-minor/)
- Sociology (PhD) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/sociology-sociology-phd/)
- Sociology, Humanities & Social Sciences (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/sociology/social-sciences-minor/)
- Soil Science (http://catalog.ncsu.edu/graduate/humanities-social-sciences/soil-science/soil-science/)
• Teaching (MA): Middle Grades Education Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-middle-grades-education-concentration/)
• Teaching (MA): Middle Grades Math Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-middle-grades-math-concentration/)
• Teaching (MA): Middle Grades Science Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-middle-grades-science-concentration/)
• Teaching (MA): Science Education Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-science-education-concentration/)
• Teaching (MA): Social Studies Education Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-social-studies-education-concentration/)
• Teaching (MA): Special Education Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-special-education-concentration/)
• Teaching (MA): Technology Education Concentration (http://catalog.ncsu.edu/graduate/education/teaching/teaching-ma-technology-education-concentration/)
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• Teaching, Training, and Educational Technology (Certificate) (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/teaching-training-educational-technology-certificate/)
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• Technical Communication (http://catalog.ncsu.edu/graduate/humanities-social-sciences/technical-communication/)
• Technical Communication (MS) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/technical-communication/technical-communication-ms/)
• Technology Education (http://catalog.ncsu.edu/graduate/education/technology-education/)
• Technology Education (EED) (http://catalog.ncsu.edu/graduate/education/technology-education/technology-education-edd/)
• Technology Education (Minor) (http://catalog.ncsu.edu/graduate/education/technology-education/technology-education-minor/)
• Technology Education (MS) (http://catalog.ncsu.edu/graduate/education/technology-education/technology-education-ms/)
• Technology Education (MS): Graphic Communication Education Concentration (http://catalog.ncsu.edu/graduate/education/technology-education/technology-education-ms-graphic-communication-education-concentration/)
• Technology Entrepreneurship and Commercialization (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/technology-entrepreneurship-commercialization-certificate/)
• Technology Entrepreneurship and Commercialization (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/technology-entrepreneurship-commercialization-certificate/)
• Textile and Apparel Management (Minor) (http://catalog.ncsu.edu/graduate/textiles/textile-apparel-management-minor/)
• Textile and Apparel Management (Minor) (http://catalog.ncsu.edu/graduate/textiles/textile-apparel-management-minor/)
• Textile Brand Management and Marketing (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textile-brand-management-marketing-certificate/)
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• Textile Chemistry (http://catalog.ncsu.edu/graduate/textiles/textile-chemistry/)
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• Textile Engineering (http://catalog.ncsu.edu/graduate/textiles/textile-engineering/)
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• Textile Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textile-engineering/textile-supply-chain-management-certificate/)
• Textile Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textile-engineering/textile-supply-chain-management-certificate/)
• Textile Technology Management (http://catalog.ncsu.edu/graduate/textiles/textile-technology-management/)
• Textile Technology Management (PhD) (http://catalog.ncsu.edu/graduate/textiles/textile-technology-management/textile-technology-management-phd/)
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• Textiles (MR) (http://catalog.ncsu.edu/graduate/textiles/textiles/textiles-mr/)
• Textiles (MS) (http://catalog.ncsu.edu/graduate/textiles/textiles/textiles-ms/)
• Toxicology (http://catalog.ncsu.edu/graduate/sciences/toxicology/)
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• Toxicology (MS) (http://catalog.ncsu.edu/graduate/sciences/toxicology/toxicology-ms/)
• Toxicology (PhD) (http://catalog.ncsu.edu/graduate/sciences/toxicology/phd/)
• Training & Development (http://catalog.ncsu.edu/graduate/education/training-development/)
• Training & Development (MEd) (http://catalog.ncsu.edu/graduate/education/training-development/training-development-med/)
• Training & Development (Minor) (http://catalog.ncsu.edu/graduate/education/training-development/training-development-minor/)

U
• Upstream Biomanufacturing (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomanufacturing/upstream-biomanufacturing-certificate/)
• Upstream Biomanufacturing (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomanufacturing/upstream-biomanufacturing-certificate/)

W
• Water Resources (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/water-resources-minor/)
• Watershed Assessment and Restoration (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/graduate-certificate/watershed-assessment-restoration-certificate/)
• Women’s, Gender, and Sexuality Studies (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/womens-gender-studies-minor/)

Y
• Youth Development and Leadership (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-development-leadership-certificate/)
• Youth Development and Leadership (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-development-leadership-certificate/)
• Youth, Family, & Community Sciences (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-family-community-sciences/)
• Youth, Family, and Community Sciences (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-family-community-sciences-mr/)
• Youth, Family, and Community Sciences (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-family-community-sciences-ms/)

Certificates
#
• 5G Technologies (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/5g-technologies-certificate/)

A
• Agricultural and Extension Education (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agricultural-extension-education/agricultural-extension-education-certificate/)
• Applied Statistics and Data Management (Certificate) (http://catalog.ncsu.edu/graduate/sciences/statistics/applied-statistics-data-management-certificate/)
• ASIC Design & Verification (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/asic-design-and-verification-certificate/)

B
• Biology for Educators (Certificate) (http://catalog.ncsu.edu/graduate/sciences/graduate-certificate/biology-educators-certificate/)
• Business Analytics (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/business-analytics-cert/)
• Business Leadership (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/business-leadership-cert/)

C
• City Design (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/city-design-certificate/)
• Climate Adaptation (Certificate) (http://catalog.ncsu.edu/graduate/sciences/marine-earth-atmospheric-sciences/climate-adaptation-certificate/)
• Computer Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/computer-engineering/computer-engineering-certificate/)
• Computer Science (Certificate) (http://catalog.ncsu.edu/graduate/engineering/computer-science/computer-science-certificate/)
• Consumer Textile Product Design and Development (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textiles/consumer-textile-product-design-development-certificate/)
• Counselor Education (Certificate) (http://catalog.ncsu.edu/graduate/education/curriculum-instruction/counselor-education-certificate/)

D
• Data Science Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/computer-science/data-science-foundations-certificate/)
• Digital Humanities (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/english/digital-humanities-certificate/)
• Disaster Resilient Policy, Engineering and Design (Certificate) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/disaster-resilient-policy-engineering-design-cert/)
• Downstream Biomanufacturing (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomanufacturing/downstream-biomanufacturing-certificate/)

E
• Electrical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/electrical-engineering-certificate/)
• Energy and Technology in Architecture (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/energy-technology-architecture-certificate/)
• Engineering Management Foundations (Certificate) (http://catalog.ncsu.edu/graduate/engineering/engineering-management/eng-mgmt-found-cert/)
• Environmental Assessment (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/environmental-assessment/environmental-assessment-certificate/)

F
• Family Life Education and Coaching (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/family-life-education-coaching-certificate/)
• Feed Science (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/feed-science-certificate/)
• Finance (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/business-administration/finance-certificate/)

G
• Geographic Information Systems (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/graduate-certificate/geographic-information-systems-certificate/)
H
• Horticultural Science (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-certificate/)

L
• Leadership and Volunteer Management (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/leadership-volunteer-management-certificate/)

M
• Marketing (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/marketing-certificate/)
• Materials Informatics (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-informatics-certificate/)
• Materials Science and Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-science-engineering-certificate/)
• Mathematics (Certificate) (http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-certificate/)
• Mathematics Teaching and Learning (Certificate) (http://catalog.ncsu.edu/graduate/education/science-technology-engineering/mathematics-teaching-learning-certificate/)
• Molecular Biotechnology (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/graduate-certificate/molecular-biotechnology-certificate/)

N
• Nano-Systems Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/nano-systems-engineering-certificate/)
• Nanobiotechnology (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomedical-engineering/nanobiotechnology-certificate/)
• Nonprofit Management (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/nonprofit-management-certificate/)
• Nonwoven Science and Technology (Certificate) (http://catalog.ncsu.edu/graduate/textiles/graduate-certificate/nonwoven-science-technology-certificate/)
• Nuclear Nonproliferation Science and Policy (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/graduate-certificate/nuclear-nonproliferation-science-policy-certificate/)

O
• Operations and Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/operations-supply-chain-management-certificate/)

P
• Performance Based Earthquake Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/civil-engineering/performance-based-earthquake-engineering-certificate/)

R
• Regulatory Science in Agriculture (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/graduate-certificate/regulatory-science-in-agriculture-certificate/)
• Renewable Electric Energy Systems (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/renewable-electric-energy-systems-certificate/)
• Renewable Energy Assessment and Development (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/environmental-assessment/renewable-energy-assessment-development-certificate/)

S
• Sport and Entertainment Venue Management (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/parks-recreation-tourism-management/sport-entertainment-venue-management-certificate/)
• Statistics Education (Certificate) (http://catalog.ncsu.edu/graduate/sciences/statistics/statistics-education-certificate/)

T
• Tax Analytics and Technology (Certificate) (http://catalog.ncsu.edu/graduate/management/accounting/tax-analytics-technology-certificate/)
• Teaching, Training, and Educational Technology (Certificate) (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/teaching-training-educational-technology-certificate/)
• Technology Entrepreneurship and Commercialization (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/technology-entrepreneurship-commercialization-certificate/)
• Textile Brand Management and Marketing (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textiles/textile-brand-management-marketing-certificate/)
• Textile Supply Chain Management (Certificate) (http://catalog.ncsu.edu/graduate/textiles/textile-engineering/textile-supply-chain-management-certificate/)

U
• Upstream Biomanufacturing (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomanufacturing/upstream-biomanufacturing-certificate/)
W

- Watershed Assessment and Restoration (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/graduate-certificate/watershed-assessment-restoration-certificate/)

Y

- Youth Development and Leadership (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/youth-development-leadership-certificate/)

NC State Graduate Handbook (http://catalog.ncsu.edu/graduate/graduate-handbook/)

- 1.1 Graduate School Responsibilities (http://catalog.ncsu.edu/graduate/graduate-handbook/school-responsibilities/)
- 1.2 Graduate Student Responsibilities (http://catalog.ncsu.edu/graduate/graduate-handbook/student-responsibilities/)
- 1.3 Graduate Faculty (http://catalog.ncsu.edu/graduate/graduate-handbook/faculty/)
- 1.4 Directors of Graduate Programs (http://catalog.ncsu.edu/graduate/graduate-handbook/directors-graduate-programs/)
- 1.5 Graduate Services Coordinators (http://catalog.ncsu.edu/graduate/graduate-handbook/services-coordinators/)
- 1.6 Graduate School Representatives (http://catalog.ncsu.edu/graduate/graduate-handbook/representatives/)
- 1.7 Administrative Board of the Graduate School (http://catalog.ncsu.edu/graduate/graduate-handbook/academic-board/)
- 1.8 Common Administrative Board Actions (http://catalog.ncsu.edu/graduate/graduate-handbook/common-administrative-board-actions/)
- 2.1 Applications (http://catalog.ncsu.edu/graduate/graduate-handbook/applications/)
- 2.2 Application Deadlines (http://catalog.ncsu.edu/graduate/graduate-handbook/application-deadlines/)
- 2.3 Graduate School Admissions (http://catalog.ncsu.edu/graduate/graduate-handbook/admissions/)
- 2.4 International Student Admissions (http://catalog.ncsu.edu/graduate/graduate-handbook/international-student-admissions/)
- 2.5 Medical History and Immunizations Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/medical-history-immunizations-requirements/)
- 3.1 Graduate School Minimum Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/minimum-requirements/)
- 3.2 Advisory Committees (http://catalog.ncsu.edu/graduate/graduate-handbook/advisory-committees/)
- 3.3 Graduate Plan of Work (http://catalog.ncsu.edu/graduate/graduate-handbook/plan-work/)
- 3.4 Time Limits (http://catalog.ncsu.edu/graduate/graduate-handbook/time-limits/)
- 3.5 Comprehensive Examinations (http://catalog.ncsu.edu/graduate/graduate-handbook/comprehensive-examinations/)
- 3.6 Theses and Dissertations (http://catalog.ncsu.edu/graduate/graduate-handbook/theses-dissertations/)
- 3.7 Master's Degree: Summary of Procedures (http://catalog.ncsu.edu/graduate/graduate-handbook/masters-degree-summary-procedures/)
- 3.8 Doctoral Degree: Summary of Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/doctoral-degree-summary-requirements/)
- 3.9 Change in Degree Level or Program (http://catalog.ncsu.edu/graduate/graduate-handbook/change-degree-level-program/)
- 3.10 Dual Master's Degrees (http://catalog.ncsu.edu/graduate/graduate-handbook/dual-masters-degrees/)
- 3.11 Master's Degrees while in Doctoral Status (http://catalog.ncsu.edu/graduate/graduate-handbook/masters-degrees-doctoral-status/)
- 3.11a Co-Majors and Minors (http://catalog.ncsu.edu/graduate/graduate-handbook/co-majors-minors/)
- 3.12 Accelerated Bachelor's/Master's Program (http://catalog.ncsu.edu/graduate/graduate-handbook/accelerated-bachelors-masters-program/)
- 3.13 Graduate Certificate Programs (http://catalog.ncsu.edu/graduate/graduate-handbook/certificate-programs/)
- 3.14 Minimum Enrolment Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/minimum-enrolment-requirements/)
- 3.15 Course Registration (http://catalog.ncsu.edu/graduate/graduate-handbook/course-registration/)
- 3.16 Withdrawal from the University (http://catalog.ncsu.edu/graduate/graduate-handbook/withdrawal-university/)
- 3.17 Grades (http://catalog.ncsu.edu/graduate/graduate-handbook/grades/)
- 3.18 Graduate Courses (http://catalog.ncsu.edu/graduate/graduate-handbook/courses/)
- 3.19 Academic Difficulty (http://catalog.ncsu.edu/graduate/graduate-handbook/academic-difficulty/)
- 3.20 Graduation (http://catalog.ncsu.edu/graduate/graduate-handbook/graduation/)
- 3.21 Diplomas (http://catalog.ncsu.edu/graduate/graduate-handbook/diplomas/)
- 3.22 University Patent Agreement and Copyright Procedures (http://catalog.ncsu.edu/graduate/graduate-handbook/university-patent-agreement-copyright-procedures/)
- 3.23 Release of Student Information (http://catalog.ncsu.edu/graduate/graduate-handbook/release-student-information/)
- 3.24 Schedule of Required Documents (http://catalog.ncsu.edu/graduate/graduate-handbook/schedule-required-documents/)
- 4.1 Assistantships, Fellowships, Traineeships, and Grants (http://catalog.ncsu.edu/graduate/graduate-handbook/assistantships-fellowships-traineeships-grants/)
- 4.2 RA and TA Appointments (http://catalog.ncsu.edu/graduate/graduate-handbook/ra-ta-appointments/)
- 5.1 Discipline and Grievance Procedures (http://catalog.ncsu.edu/graduate/graduate-handbook/discipline-grievance-procedures/)