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/) website.

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Programs and Degrees

A

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- Accounting (MR) (http://catalog.ncsu.edu/graduate/management/ accounting/accounting-mr/)
- Adult & Community College Education (Minor) (http://catalog.ncsu.edu/graduate/education/adult-community-college-education/adult-community-college-education-minor/)
- Adult and Community College Education (http://catalog.ncsu.edu/graduate/education/adult-community-college-education/)
- Adult and Community College Education (EdD) (http://catalog.ncsu.edu/graduate/education/adult-community-college-education/adult-community-college-education-edd/)
- Adult and Community College Education (MEd) (http://catalog.ncsu.edu/graduate/education/adult-community-college-education/adult-community-college-education-med/)
- Adult and Community College Education (MS) (http://catalog.ncsu.edu/graduate/education/adult-community-college-education/adult-community-college-education-ms/)
- Aerospace Engineering (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/)
- Aerospace Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-minor/)
- Aerospace Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-ms/)
- Aerospace Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/aerospace-engineering/aerospace-engineering-phd/)
- Agricultural & Extension Education (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agricultural-extension-education/agricultural-extension-education-minor/)
- Agricultural and Extension Education (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agricultural-extension-education/)
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- Agricultural and Extension Education (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agricultural-extension-education/agricultural-extension-education-phd/)
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- Agricultural and Extension Education (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agricultural-extension-education/agricultural-extension-education-mr/)
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- Analytics (http://catalog.ncsu.edu/graduate/institute-advanced-analytics/analytics/)
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- Animal Science (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/animal-science/)
- Animal Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/animal-science/animal-science-minor/)
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- Animal Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/animal-science/animal-science-ms/)
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- Anthropology (MA) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/anthropology/anthropology-ma/)
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• Applied Mathematics (MS) (http://catalog.ncsu.edu/graduate/sciences/applied-mathematics/applied-mathematics-ms/)
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• Applied Mathematics (PhD): Computational Mathematics Concentration (http://catalog.ncsu.edu/graduate/sciences/applied-mathematics/applied-mathematics-phd-computational-mathematics/)
• Applied Mathematics (PhD): Interdisciplinary Applied Math Concentration (http://catalog.ncsu.edu/graduate/sciences/applied-mathematics/applied-mathematics-phd-interdisciplinary-applied-math-concentration/)
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• Applied Statistics and Data Management (Certificate) (http://catalog.ncsu.edu/graduate/sciences/statistics/applied-statistics-data-management-certificate/)
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• Architecture (Minor) (http://catalog.ncsu.edu/graduate/design/architecture/architecture-minor/)
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• Art and Design (MR) (http://catalog.ncsu.edu/graduate/design/art-design/art-design-architectural-mini/)
• ASIC Design & Verification (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/asic-design-and-verification-certificate/)
• ASIC Design & Verification (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/asic-design-and-verification-certificate/)

B

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• Biochemistry (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biochemistry/biochemistry-minor/)
• Biochemistry (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biochemistry/biochemistry-architectural-mini/)
• Biochemistry (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biochemistry/biochemistry-architectural-mini/m/)
• Biochemistry (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biochemistry/biochemistry-phd/)
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• Biological and Agricultural Engineering (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/)
• Biological and Agricultural Engineering (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-architectural-mini/)
• Biological and Agricultural Engineering (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-architectural-mini/phd/)
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C

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graduate/education/curriculum-instruction/new-literacies-global-learning-ms-social-studies-education-concentration/)

D

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E

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• Educational Leadership, Policy, and Human Development (PhD) (http://catalog.ncsu.edu/graduate/education/educational-leadership-policy-human-development/educational-leadership-policy-human-development-phd/)
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• Engineering Management (MR): Analytics Concentration (http://catalog.ncsu.edu/graduate/engineering-management-analytics)
• Engineering Management (MR): Entrepreneurship Concentration (http://catalog.ncsu.edu/graduate/engineering-management-entrepreneurship)
• Engineering Management (MR): Facilities Engineering Concentration (http://catalog.ncsu.edu/graduate/engineering-management-facilities)
• Engineering Management (MR): General Concentration (http://catalog.ncsu.edu/graduate/engineering-management-general)
• Engineering Management (MR): Health and Human Systems Concentration (http://catalog.ncsu.edu/graduate/engineering-management-health-human-systems)
• Engineering Management (MR): Professional Practice Concentration (http://catalog.ncsu.edu/graduate/engineering-management-professional-practice)
• Engineering Management (MR): Supply Chain Engineering & Management Concentration (http://catalog.ncsu.edu/graduate/engineering-management-supply-chain)
• English (http://catalog.ncsu.edu/graduate/english)
• English (MA) (http://catalog.ncsu.edu/graduate/english)
• Entomology (http://catalog.ncsu.edu/graduate/entomology)
• Entomology (Minor) (http://catalog.ncsu.edu/graduate/entomology-minor)
• Entomology (MR) (http://catalog.ncsu.edu/graduate/entomology-mr)
• Entomology (MS) (http://catalog.ncsu.edu/graduate/entomology-ms)
• Entomology (PhD) (http://catalog.ncsu.edu/graduate/entomology-phd)
• Entomology (PhD): Behavioral Biology Concentration (http://catalog.ncsu.edu/graduate/entomology-phd-behavioral-biology)
• Environmental Assessment (MR) (http://catalog.ncsu.edu/graduate/environmental-assessment)
• Environmental Assessment (Certificate) (http://catalog.ncsu.edu/graduate/environmental-assessment-certificate)
• Environmental Engineering (http://catalog.ncsu.edu/graduate/environmental-engineering)
• Environmental Engineering (MR) (http://catalog.ncsu.edu/graduate/environmental-engineering-mr)
• Environmental Engineering (MS) (http://catalog.ncsu.edu/graduate/environmental-engineering-ms)
• Environmental Remote Sensing & Image Analysis (Minor) (http://catalog.ncsu.edu/graduate/environmental-remote-sensing-image-analysis-minor)

F
• Family Life Education and Coaching (Certificate) (http://catalog.ncsu.edu/graduate/family-life-education-coaching-certificate)
• Family Life Education and Coaching (Certificate) (http://catalog.ncsu.edu/graduate/family-life-education-coaching-certificate)
• Feed Science (Certificate) (http://catalog.ncsu.edu/graduate/feed-science-certificate)
• Feed Science (Certificate) (http://catalog.ncsu.edu/graduate/feed-science-certificate)
• Fiber & Polymer Science (http://catalog.ncsu.edu/graduate/fiber-polymer-science)
• Fiber and Polymer Science (PhD) (http://catalog.ncsu.edu/graduate/fiber-polymer-science-phd)
• Finance (Certificate) (http://catalog.ncsu.edu/graduate/finance-certificate)
• Finance (Certificate) (http://catalog.ncsu.edu/graduate/finance-certificate)
• Financial Mathematics (http://catalog.ncsu.edu/graduate/financial-mathematics)
• Financial Mathematics (MR) (http://catalog.ncsu.edu/graduate/financial-mathematics-mr)
• Fisheries, Wildlife, and Conservation Biology (http://catalog.ncsu.edu/graduate/fisheries-wildlife-conservation-biology)
• Fisheries, Wildlife, and Conservation Biology (MR) (http://catalog.ncsu.edu/graduate/fisheries-wildlife-conservation-biology-mr)
• Fisheries, Wildlife, and Conservation Biology (MS) (http://catalog.ncsu.edu/graduate/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/foreign-language-literature-ma-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/foreign-language-literature-ma-spanish-language-literature-concentration/)
• Foreign Language and Literature (MA): Teaching of English to Speakers of Other Languages (TESOL) Concentration (http://catalog.ncsu.edu/graduate/humanities-social-sciences/foreign-language-literature/foreign-language-literature-ma-tesol-concentration/)
• Forest Biomaterials (http://catalog.ncsu.edu/graduate/natural-resources/forest-biomaterials/)
• Forest Biomaterials (MR) (http://catalog.ncsu.edu/graduate/natural-resources/forest-biomaterials/forest-biomaterials-mr/)
• 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 (PhD) (http://catalog.ncsu.edu/graduate/interdisciplinary/functional-genomics/functional-genomics-phd/)
• 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/)

G

• 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/)
• Geographic Information Systems (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/graduate-certificate/geographic-information-systems-certificate/)
• 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/)
• Geospatial Information Science & Technology (http://catalog.ncsu.edu/graduate/natural-resources/geospatial-information-science-technology/)
• Geospatial Information Science and Technology (MR) (http://catalog.ncsu.edu/graduate/natural-resources/geospatial-information-science-technology/geospatial-information-science-technology-mr/)
• Graduate Certificates - College of Design (http://catalog.ncsu.edu/graduate/design/graduate-certificate/)
• Graduate Certificates - College of Education (http://catalog.ncsu.edu/graduate/education/graduate-certificate/)
• Graduate Certificates - College of Engineering (http://catalog.ncsu.edu/graduate/engineering/graduate-certificate/)
• Graduate Certificates - Poole College of Management (http://catalog.ncsu.edu/graduate/management/graduate-certificate/)
• Graphic Design (http://catalog.ncsu.edu/graduate/design/graphic-design/)
• Graphic Design (MR) (http://catalog.ncsu.edu/graduate/design/graphic-design/graphic-design-mr/)

H

• Higher Education Administration (http://catalog.ncsu.edu/graduate/education/higher-education-administration/)
• Higher Education Administration (MEd) (http://catalog.ncsu.edu/graduate/education/higher-education-administration/higher-education-administration-med/)
• History (http://catalog.ncsu.edu/graduate/humanities-social-sciences/history/)
• 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/)
• Horticultural Science (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/)
• 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/)

• Industrial Design (http://catalog.ncsu.edu/graduate/design/industrial-design/)
• Industrial Design (MR) (http://catalog.ncsu.edu/graduate/design/industrial-design/industrial-design-mr/)
• Industrial Engineering (http://catalog.ncsu.edu/graduate/engineering/industrial-engineering/)
• 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/)
• Industrial Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/industrial-engineering/industrial-engineering-phd/)
• 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/)
• Integrated Manufacturing Systems Engineering (MR) (http://catalog.ncsu.edu/graduate/engineering/integrated-manufacturing-systems-engineering/integrated-manufacturing-systems-engineering-mr/)
• Interdisciplinary (Minor) (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/interdisciplinary-minor/)
• Interdisciplinary Minors (http://catalog.ncsu.edu/graduate/interdisciplinary/interdisciplinary-minors/)
• International Studies (http://catalog.ncsu.edu/graduate/humanities-social-sciences/international-studies/)
• International Studies (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/international-studies/international-studies-minor/)
• International Studies (MR) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/international-studies/international-studies-mr/)

• Landscape Architecture (http://catalog.ncsu.edu/graduate/design/landscape-architecture/)
• Landscape Architecture (Minor) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-minor/)
• Landscape Architecture (MR) (http://catalog.ncsu.edu/graduate/design/landscape-architecture/landscape-architecture-mr/)
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• Leadership and Volunteer Management (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/youth-family-community-sciences/leadership-volunteer-management-certificate/)
• Learning & Teaching in STEM (PhD) (http://catalog.ncsu.edu/graduate/education/learning-teaching-stem/learning-teaching-stem-phd/)
• Learning and Teaching in STEM (http://catalog.ncsu.edu/graduate/education/learning-teaching-stem/)
• 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/liberal-studies-ma/)
• Liberal Studies (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/liberal-studies/liberal-studies-minor/)

• Management (http://catalog.ncsu.edu/graduate/management/management/)
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• 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/management/business-administration/marketing-certificate/)
• Marketing (Certificate) (http://catalog.ncsu.edu/graduate/management/business-administration/marketing-certificate/)
• Materials Science & Engineering (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/)
• Materials Science and Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-science-engineering-certificate/)
• Materials Science and Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-science-engineering-certificate/)
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• Materials Science and Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/materials-science-engineering/materials-science-engineering-certificate/)
• Mathematics (http://catalog.ncsu.edu/graduate/mathematics/mathematics/)
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• Mathematics (Certificate) (http://catalog.ncsu.edu/graduate/mathematics/mathematics/mathematics-certificate/)
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• Mathematics (MS) (http://catalog.ncsu.edu/graduate/mathematics/mathematics/mathematics-ms/)
• Mathematics (PhD) (http://catalog.ncsu.edu/graduate/mathematics/mathematics/mathematics-phd/)
• Mathematics: Interdisciplinary Mathematics Concentration (http://catalog.ncsu.edu/graduate/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/)
• Mathematics Teaching and Learning (Certificate) (http://catalog.ncsu.edu/graduate/education/science-technology-engineering/mathematics-education/mathematics-teaching-learning-certificate/)
• Mathematics Teaching and Learning (Certificate) (http://catalog.ncsu.edu/graduate/education/science-technology-engineering/mathematics-education/mathematics-teaching-learning-certificate/)
• Mechanical Engineering (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/)
• Mechanical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/mechanical-engineering-certificate/)
• Mechanical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/mechanical-engineering-certificate/)
• Mechanical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/mechanical-engineering-certificate/)
• Mechanical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/mechanical-engineering-certificate/)
• Mechanical Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/mechanical-engineering/mechanical-engineering-certificate/)
• Microbial Biotechnology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbial-biotechnology/)
• Microbial Biotechnology (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbial-biotechnology/microbial-biotechnology-mp/)
• Microbiology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbiology/)
• Microbiology (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbiology/microbiology-minor/)
• Microbiology (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbiology/microbiology-mp/)
• Microbiology (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbiology/microbiology-ms/)
• Microbiology (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/microbiology/phd/)
• 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/)
• 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/)
• Nanobiotechnology (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomedical-engineering/nanobiotechnology-certificate/)
• Nanoelectronics and Nanophotonics Concentration (http://catalog.ncsu.edu/graduate/engineering/nanoengineering/nanoelectronics-nanophotonics-concentration/)
• Natural Resources (http://catalog.ncsu.edu/graduate/natural-resources/natural-resources/)
• Natural Resources (MR) (http://catalog.ncsu.edu/graduate/natural-resources/natural-resources-natural-resources-mr/)
• Natural Resources (MS) (http://catalog.ncsu.edu/graduate/natural-resources/natural-resources-natural-resources-ms/)
• Nonprofit Management (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/nonprofit-management-certificate/)
- Nonprofit Management (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/nonprofit-management-certificate/)
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- Nuclear Engineering (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/)
- Nuclear Engineering (Minor) (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/nuclear-engineering-minor/)
- Nuclear Engineering (MR) (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/nuclear-engineering-mr/)
- Nuclear Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/nuclear-engineering-ms/)
- Nuclear Engineering (PhD) (http://catalog.ncsu.edu/graduate/engineering/nuclear-engineering/nuclear-engineering-phd/)
- Nuclear Nonproliferation Science and Policy (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/graduate-certificate/nuclear-nonproliferation-science-policy-certificate/)
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- Nutrition (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/nutrition/nutrition-minor/)
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- 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/)
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- Physics (MS) (http://catalog.ncsu.edu/graduate/sciences/physics/physics-ms/)
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- Physiology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/physiology/)
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- 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/)
- Plant Biology (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-biology/plant-biology-minor/)
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- Plant Biology (PhD) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-biology/phd/)
- Plant Pathology (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-pathology/)
- Plant Pathology (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-pathology/plant-pathology-minor/)
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- Plant Pathology (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/plant-pathology/plant-pathology-ms/)
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- Policy Analysis (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/policy-analysis-certificate/)
- Poultry Science (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/)
- Poultry Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/poultry-science-minor/)
- Poultry Science (MR) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/poultry-science-mr/)
- Poultry Science (MS) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/poultry-science/poultry-science-ms/)
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• Psychology (http://catalog.ncsu.edu/graduate/humanities-social-sciences/psychology/)
• Psychology (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/psychology/psychology-minor/)
• Psychology (MS): School Psychology Concentration (http://catalog.ncsu.edu/graduate/humanities-social-sciences/psychology/psychology-ms-school-psychology-concentration/)
• Psychology (PhD) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/psychology/psychology-phd/)
• Public Administration (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/public-administration/)
• Public Administration (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/public-administration-minor/)
• Public Administration (MR) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/public-administration-mr/)
• Public Administration (PhD) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/public-administration-phd/)
• Public History (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-history/public-history/)
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• Public History (Minor) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-history/public-history-minor/)
• Public History (PhD) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-history/public-history-phd/)
• Public Interest Design (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/public-interest-design-certificate/)
• Public Interest Design (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/public-interest-design-certificate/)
• Public Policy (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-international-affairs/public-policy-certificate/)

R
• Renewable Electric Energy Systems (Certificate) (http://catalog.ncsu.edu/graduate/engineering/electrical-engineering/renewable-electric-energy-systems-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
• School Administration (http://catalog.ncsu.edu/graduate/education/school-administration/)
• School Administration Distance Education (MR) (http://catalog.ncsu.edu/graduate/education/school-administration/school-administration-mr/)
• School Counseling (http://catalog.ncsu.edu/graduate/education/school-counseling/)
• School Counseling (MEd) (http://catalog.ncsu.edu/graduate/education/school-counseling/school-counseling-med/)
• Science Education (http://catalog.ncsu.edu/graduate/education/science-education/)
• Science Education (Minor) (http://catalog.ncsu.edu/graduate/education/science-education/science-education-minor/)
• Science Education (MS) (http://catalog.ncsu.edu/graduate/education/science-education/science-education-ms/)
• Science, Technology, Engineering, and Mathematics Education (http://catalog.ncsu.edu/graduate/education/science-technology-engineering/mathematics-education/)
• Science, Technology, Engineering, and Mathematics Education (MEd) (http://catalog.ncsu.edu/graduate/education/science-technology-engineering/mathematics-education/science-technology-engineering/mathematics-education-md/)
• Social Work (http://catalog.ncsu.edu/graduate/humanities-social-sciences/social-work/)
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• Soil Science (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/)
• Soil Science (Minor) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/soil-science/soil-science-minor/)
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• Special Education (http://catalog.ncsu.edu/graduate/education/special-education/
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• Sport and Entertainment Venue Management (Certificate) (http://catalog.ncsu.edu/graduate/
  natural-resources/parks-recreation-tourism-management/sport-entertainment-venue-
  management-certificate/)
• 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-
  statistics-minor/)
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• Statistics (MR): Biostatistics Concentration (http://catalog.ncsu.edu/graduate/
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• Teaching (MA): Middle Grades Education Concentration (http://catalog.ncsu.edu/graduate/
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• Teaching (MA): Middle Grades Math Concentration (http://catalog.ncsu.edu/graduate/
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• Teaching (MA): Middle Grades Science Concentration (http://catalog.ncsu.edu/graduate/
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• Upstream Biomanufacturing (Certificate) (http://catalog.ncsu.edu/graduate/engineering/biomanufacturing/upstream-biomanufacturing-certificate/)
• 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/)
• 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, 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

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• 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/)

• Biology for Educators (Certificate) (http://catalog.ncsu.edu/graduate/sciences/graduate-certificate/biology-educators-certificate/)

• City Design (Certificate) (http://catalog.ncsu.edu/graduate/design/architecture/city-design-certificate/)

• Climate Adaptation (Certificate) (http://catalog.ncsu.edu/graduate/sciencesmarine-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/)

• 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/)

• Downstream Biomaterials (Certificate) (http://catalog.ncsu.edu/graduate/engineering/bioengineering/downstream-biomaterials-certificate/)

• 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/)

• Environmental Assessment (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/environmental-assessment/environmental-assessment-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/)

• Finance (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/finance-certificate/)

• Geographic Information Systems (Certificate) (http://catalog.ncsu.edu/graduate/natural-resources/graduate-certificate/geographic-information-systems-certificate/)

• Horticultural Science (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/horticultural-science/horticultural-science-certificate/)

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

• Marketing (Certificate) (http://catalog.ncsu.edu/graduate/business-administration/marketing-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/)

• 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/)

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• Policy Analysis (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/public-administration/policy-analysis-certificate/)
• Professional Communication and Managerial Skills (Certificate) (http://catalog.ncsu.edu/graduate/humanities-social-sciences/communication/professional-communication-managerial-skills-certificate/)
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• Tax Analytics and Technology (Certificate) (http://catalog.ncsu.edu/graduate/management/accounting/tax-analytics-technology-certificate/)
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• Technology Entrepreneurship and Commercialization (Certificate) (http://catalog.ncsu.edu/graduate/management/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/)

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

• Watershed Assessment and Restoration (Certificate) (http://catalog.ncsu.edu/graduate/agriculture-life-sciences/agriculture-life-sciences/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/)

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• 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/)
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• 2.1 Applications (http://catalog.ncsu.edu/graduate/graduate-handbook/applications/)
• 2.2 Application Deadlines (http://catalog.ncsu.edu/graduate/graduate-handbook/application-deadlines/)
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• 2.5 Medical History and Immunizations Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/medical-history-immunizations-requirements/)
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• 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/)

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• 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 Enrollment Requirements (http://catalog.ncsu.edu/graduate/graduate-handbook/minimum-enrollment-requirements/)
• 3.15 Course Registration (http://catalog.ncsu.edu/graduate/graduate-handbook/course-registration/)
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• 3.22 University Patent Agreement and Copyright Procedures (http://catalog.ncsu.edu/graduate/graduate-handbook/university-patent-agreement-copyright-procedures/)
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• 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/)
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• 5.1 Discipline and Grievance Procedures (http://catalog.ncsu.edu/graduate/graduate-handbook/discipline-grievance-procedures/)