

College of Sciences

The College of Sciences offers programs for students interested in working side-by-side with world-class faculty to address the grand challenges of our time, particularly those related to health, energy, safety and security, and the environment. We foster a diverse and inclusive academic community that provides a dynamic, nurturing environment for learning and discovery.

Our graduates, exhibiting well-developed analytical thinking and problem-solving skills, are recruited for technical and administrative positions in industry and laboratories, universities and colleges, non-profit research organizations, and government agencies. A large percentage undertake further study leading to master's and doctoral degrees in their fields or go on to medical, law, business, or other professional schools.

Students interested in mathematics, statistics, biology, medicine, chemistry, geology, marine science, meteorology, or physics; fascinated by natural phenomena; and want to advance economic, societal, and intellectual prosperity for everyone should consider the career opportunities opened by degrees in the sciences. The College of Sciences empowers students to explore opportunities, discover passions and attain an enriched science education.

- The college is a leader in several growing areas of science — such as big data, bioinformatics, environmental health science, geospatial analytics, and personalized medicine — that teach students skills highly valued in industry, laboratories, nonprofit research organizations, and government agencies.
- Sciences alumni have been named to the Forbes “30 Under 30” list, worked aboard the International Space Station, and gone on to prestigious academic and professional careers all over the world.
- More than 400 active research projects and more than \$40 million in research expenditures annually provide students with opportunities to explore beyond the classroom, broaden connections with the faculty, and further develop communication and presentation skills.
- The Sciences Ambassadors Program provides outstanding students the opportunity to engage with the college and promote a vibrant campus culture while representing the college at events for prospective students and families, alumni, and other special guests.

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

Bureau of Mines

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Faculty

Dean

Lewis Owen

Associate Dean

Alexander (Lex) Kemper, *Research*

Alun Lloyd, *Academic Affairs*

Herle McGowan, *Administration*

Jamila Simpson, *College Success and Well-Being*

Assistant Dean

Tina Morrison, *Philanthropy*

Nikki Price, *Culture, Talent, and Human Resources*

Amanda Savas, *Finance & Business Management*

Directors

Nate DeGraff, *Marketing and Communications*

Kathie Dello, *State Climate Office*

Paul Liu, *International Affairs*

Jason Painter, *The Science House*

Keith Warren, *Facilities and Operations*

Department Heads

Alina Chertock, *Mathematics*

Paul Huffman, *Physics*

Gary Lackmann, *Marine, Earth and Atmospheric Sciences*

Bruce Schulte, *Biological Sciences*

Kimberly Sellers, *Statistics*

Gavin Williams, *Chemistry*

Departments

- Department of Biological Sciences (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/>)
- Department of Chemistry (<http://catalog.ncsu.edu/undergraduate/sciences/chemistry/>)
- Department of Marine, Earth and Atmospheric Sciences (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/>)
- Department of Mathematics (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/>)
- Department of Physics (<http://catalog.ncsu.edu/undergraduate/sciences/physics/>)
- Department of Statistics (<http://catalog.ncsu.edu/undergraduate/sciences/statistics/>)
- Environmental First Year Program (<http://catalog.ncsu.edu/undergraduate/sciences/environmental-first-year-program/>)
- Life Sciences First Year (<http://catalog.ncsu.edu/undergraduate/sciences/life-sciences-first-year/>)

Majors

- Applied Mathematics (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/applied-mathematics-bs/>)
- Applied Mathematics (BS): Financial Mathematics Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/applied-mathematics-bs-financial-mathematics-concentration/>)
- Applied Mathematics (BS): Mathematical Foundations of Data Science Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/applied-mathematics-bs-mathematical-foundations-data-science-concentration/>)
- Biological Sciences (BA) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-ba/>)
- Biological Sciences (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-bs/>)
- Biological Sciences (BS): Ecology, Evolution and Conservation Biology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-bs-ecology-evolution-conservation-biology-concentration/>)
- Biological Sciences (BS): Human Biology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-bs-human-biology-concentration/>)
- Biological Sciences (BS): Integrative Physiology and Neurobiology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-bs-integrative-physiology-neurobiology-concentration/>)
- Biological Sciences (BS): Molecular, Cellular, and Developmental Biology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-bs-molecular-cellular-developmental-biology-concentration/>)
- Chemistry (BA) (<http://catalog.ncsu.edu/undergraduate/sciences/chemistry/chemistry-ba/>)
- Chemistry (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/chemistry/chemistry-bs/>)
- Environmental First Year Program (<http://catalog.ncsu.edu/undergraduate/sciences/environmental-first-year-program/>)
- Genetics (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/genetics-bs/>)
- Geology (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/geology-bs/>)
- Life Sciences First Year (<http://catalog.ncsu.edu/undergraduate/sciences/life-sciences-first-year/>)
- Marine Sciences (BS): Biological Oceanography Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-sciences-bs-biological-oceanography-concentration/>)
- Marine Sciences (BS): Chemistry Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-sciences-bs-chemistry-concentration/>)
- Marine Sciences (BS): Geology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-sciences-bs-geology-concentration/>)
- Marine Sciences (BS): Meteorology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-sciences-bs-meteorology-concentration/>)
- Marine Sciences (BS): Physics Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-sciences-bs-physics-concentration/>)
- Mathematics (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/mathematics-bs/>)
- Meteorology (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/meteorology-bs/>)
- Meteorology (BS): Marine Sciences Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/meteorology-bs-marine-sciences-concentration/>)
- Microbiology (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-bs/>)
- Microbiology (BS): Microbial Biotechnology Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-bs-microbial-biotechnology/>)
- Microbiology (BS): Microbial Health Science Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-bs-microbial-health-science/>)
- Microbiology (BS): Microbial Research Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-bs-microbial-research/>)
- Natural Resources (BS): Marine and Coastal Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/natural-resources-bs-marine-coastal-concentration/>)
- Physics (BA) (<http://catalog.ncsu.edu/undergraduate/sciences/physics/physics-ba/>)
- Physics (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/physics/physics-bs/>)
- Physics (BS): Interdisciplinary Physics Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/physics/physics-bs-interdisciplinary/>)
- Statistics (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/statistics/statistics-bs/>)
- Statistics (BS): Data Science Concentration (<http://catalog.ncsu.edu/undergraduate/sciences/statistics/statistics-bs-data-science-concentration/>)
- Zoology (BS) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/zoology-bs/>)
- Zoology (BS): Applied Zoology (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/zoology-bs-applied-zoology/>)

Minors

- Biological Sciences (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/biological-sciences-minor/>)
- Evolutionary Biology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/evolutionary-biology-minor/>)
- Forensic Science (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/forensic-science-minor/>)
- Genetics (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/genetics-minor/>)
- Geology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/geology-minor/>)
- Marine Sciences (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/marine-science-minor/>)
- Mathematics (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/mathematics/mathematics-minor/>)
- Meteorology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/marine-earth-atmospheric-sciences/meteorology-minor/>)

- Microbiology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-minor/>)
- Paleontology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/paleontology-minor/>)
- Physics (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/physics/physics-minor/>)
- Statistics (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/statistics/statistics-minor/>)
- Toxicology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/toxicology-minor/>)
- Zoology (Minor) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/zoology-minor/>)

Certificates

- Microbiology (Certificate) (<http://catalog.ncsu.edu/undergraduate/sciences/biological-sciences/microbiology-certificate/>)