

GRADUATE SCHOOL HIGHLIGHTS



UNC Charlotte

- North Carolina's urban research university
- Third largest university in NC and largest institution of higher education in the Charlotte region
- Fall 2015 enrollment exceeded 28,000 students, including over 5,000 graduate students
- Of the enrollment growth in the UNC system from the fall of 2009 to the fall of 2015, UNC Charlotte accounts for 61%
- UNC Charlotte has two alums leading Fortune 500 top 100 companies
- The J. Murrey Atkins Library is the largest academic library in the Charlotte Metro area
- 18 graduate students have been selected as prestigious National Science Fellows
- 2 UNC Charlotte professors have won U.S. Professors of the Year sponsored by the Council for Advancement and Support of Education (CASE) and the Carnegie Foundation for the Advancement of Teaching

The Graduate School

- Celebrated the 30th Anniversary in 2015 of the creation of the Graduate School
- 21 doctoral degree, 61 Master's and 45 certificate programs
- Awarded more than \$21,406,494 to over 3,500 graduate students in need-based and merit funding and graduate assistantships (2014)
- Created 3 assistantships specifically for military veterans enrolling in a master's or doctoral program
- Launched a new Corporate Skills professional development program for graduate students in 2015
- Partnerships with the Sarajevo School of Science and Technology in Bosnia, three Chinese universities, and universities in India, Brazil and Chile
- The Center for Graduate Life (CGL) offers 50 workshops for graduate students
- CGL hired its first Executive-in-Residence to focus on alternate career paths for graduate students, particularly doctoral students (2015)

Data Science Initiative

- Big data and business analytics is one of the biggest trends in business today and a primary focus for UNC Charlotte
- The Data Science Initiative (DSI) is an industry-university-state partnership and is a horizontal initiative working across the university
- Named one of the top 50 best value big data programs by valuecolleges.com
- College of Computing and Informatics and Belk College of Business collaborate to offer a Professional Science Master's (PSM) and a Graduate Certificate in Data Science and Business Analytics to meet industries growing demand for talent in this field
- PSM and Graduate Certificate in Health Informatics through College of Health and Human Services to meet needs in healthcare field

College of Computing and Informatics

- Largest and most comprehensive technology program in North Carolina
- The Cyber Defense & Network Assurance (CyberDNA) Center is a leading national center in network and information security
- Hosts the annual Cyber Security Symposium, the premier security conference in the region
- 3 time winner of the Southeastern Collegiate Cyber Defense Competition (2006, 2009, 2012) & finished in the top 3 in 3 of the last 4 years
- The Charlotte Visualization Center applies interactive visualization and visual analytics to large scale and complex problems in science, engineering, medicine, business, design, and the arts
- Houses the Center for Configuration Analytics and Automation, a multi-university and multi-industry consortium addressing the current and future challenges of configuration analytics and automation
- Complex Systems Institute brings together academia, industry, and federal agencies to advance computing simulation, analysis, and modeling

William States Lee College of Engineering

- Rated the best Engineering Technology, Engineering Management and Systems Engineering programs in NC
- The Center for Precision Metrology is internationally recognized
- The Energy Production and Infrastructure Center (EPIC) works closely with industry leaders to provide the laboratory and classroom space to develop new energy solutions and educate the next generation of energy engineers
- Transatlantic Energy Research Experience (TE-REx) program: Each year 4 students are selected to spend two months at the prestigious Karlsruhe Institute of Technology in Karlsruhe, Germany participating in power and energy research activities
- Engineering faculty and students are developing novel techniques to manage coal ash
- A researcher in the Fire Safety Engineering Technology program is leading a new multi-institutional study designed to reduce wildfires
- The Center for Biomedical Engineering and Science focuses on 3 areas of research: molecular engineering and design, medical therapies and technologies, and biomechanics and mobility research
- The M.S. and Ph.D. programs in Optical Science and Engineering are interdisciplinary involving primarily four science and engineering departments, the Center for Optoelectronics & Optical Communications, and the Center for Precision Metrology

Belk College of Business

- One of only three universities in NC to offer degrees in business administration at the bachelor's, master's and doctoral level
- First university in the Charlotte region to offer an MBA Program and the first MBA program offered in Center City
- Real Estate Master's Program students engage in community projects on the social and environmental impact of real estate development
- The Global Business Graduate Programs teach business through a global perspective with partnerships in Mexico and Denmark
- The UNC Charlotte Economic Forecast is recognized as the leading source of economic information for North Carolina
- The nationally ranked Master's in Mathematical Finance is a joint program between Finance, Economics, Math and Statistics

College of Liberal Arts and Sciences

- The Department of English offers one of the largest and most influential Children's Literature faculties in the US
- Master of Public Administration program is ranked in the top 25 percent of public affairs programs in the nation by U.S. News and World Report.
- The Industrial/Organizational Psychology Master's Program is nationally recognized for its work to improve the workplace environment
- Researchers study income inequality within the United States and cross-nationally
- The Religious Studies Department has conducted field work in Israel and Jordan including Qumran, site of the Dead Sea Scrolls
- The only American university licensed to conduct excavations in Jerusalem's ancient city at Mt. Zion; discovered artifacts from the 1st century
- Biology research projects include a focus on understanding metastases associated with cancers such as melanoma and breast cancer
- Breakthrough research on the role of inflammation and MUC1 in pancreatic cancer progression and exploring novel strategies to target molecules within the tumor microenvironment
- Researchers developing photoactive materials that can be used to harvest solar photons and convert that energy into either electricity or fuel
- Established in 2007, the multidisciplinary Nanoscale Science PhD Program is the first in NC; it impacts biomedicine and renewable energy, among other areas
- Research team creating a "technological ecosystem" to forecast and influence technological progress in solar energy
- The Organizational Science PhD, created in 2005, was the first in the nation, bringing together traditionally separate disciplines of communication, business, sociology and psychology.

College of Health and Human Services

- School of Social Work ranked #1 Master's in Social Work Program in US for best value
- Partnered with industry leaders to develop new technology: an automated, cloud-based software program that helps health systems manage patient data at the community level
- PhD program in Health Services Research includes programs in health economics, organizational structures, and epidemiology
- Gerontology research includes an on-going effort to help family caregivers make more effective use of respite services
- Research demonstrates the capability of new technology that allows in-depth analysis of health outcomes amongst different groups
- Doctor of Nursing Practice (DNP) prepares students for highest clinical level and leadership in comprehensive healthcare systems
- Researchers study barriers to healthcare including to military and veteran populations, and the reintegration of veterans and their families.

College of Arts and Architecture

- Joint Master's of Architecture program with Tongji University in Shanghai, China
- The Urban Design Program includes a distinctive five-week international design experience
- Received the People's Choice award at the 2013 Solar Decathlon national competition
- Received a three-year grant to support the Mobile Arts & Community Experience (MAX), a mobile space to integrate the arts into community events throughout the region
- The Center for Integrated Design Research focuses on the refinement of regionally specific computer-aided analysis tools used to evaluate total building energy performance, and the economic valuation of architectural systems and their design attributes
- A faculty member is a co-founder of Futurepolis, an award-winning multi-disciplinary design practice

College of Education

- Listed by U.S. News and World Reports as one of America's best graduate schools in education
- One of the three largest education programs in North Carolina
- Nearly 7,000 graduates of the program are now teaching in North Carolina public schools
- Literacy professors are among the most prolific scholars in the country in their field, according to the journal *Reading Psychology*
- Education project was awarded \$1.3 million to enhance training for teachers of birth to kindergarten children in non-public schools
- Special education department received a \$12.5 million grant from the Department of Education to improve the transition to higher education and employment for students with disabilities
- Houses several research centers, including Center for Adolescent Literacies, Center for Science, Technology, Engineering & Mathematics Education, and the Urban Education Collaborative
- Received \$12.5 million grant to launch national transition center for students with disabilities

Charlotte Research Institute

- Ranked in the top five U.S. universities for new company formation per research dollar spent in 10 of the last 11 years
- Selected by the National Science Foundation as an I-Corps Site (2015-2018) joining 35 other universities in the NSF National Innovation Network focused on accelerating technology commercialization. The only university in the Carolinas and Tennessee to be designated
- Ventureprise business incubator has operated continuously since 1986, making it one of the country's oldest university incubators (originally known as the Ben Craig Center)
- 49er Foundry student business incubator center currently has 12 student ventures
- Ventureprise and our SBTDC (Small Business and Technology Business Center) provide coaching, consulting and other services to 900-1,000 entrepreneurial companies annually
- The Office of Technology Transfer identifies, protects and commercializes University research and intellectual property; averaging 60 patent applications annually