A MESSAGE FROM OUR DEAN

Thank you for your interest in the College of Computing and Informatics (CCI) at UNC Charlotte.

We live in the golden age of information technology (IT). IT is transforming every aspect of society—our homes, workplaces, communities, industries, and economy. Technology is no longer just a tool for productivity; it is now a driving force for innovation and a catalyst for social and economic transformation.

As the fastest growing college in the UNC system, the largest computing college in North Carolina, and one of the largest in the nation, CCI prides itself on being innovative in its research and education, inclusive in its design and operation, and responsive to the rapidly changing needs and ambitions of its constituencies.

UNDERGRADUATE

The College of Computing and Informatics (CCI) offers a B.S. and a B.A. in Computer Science (CS) as well as opportunities to earn a Minor in CS or Bioinformatics or even an undergraduate certificate in Game Design. In addition, the College offers an Honors program and an Early Entry program.

Computer science students at CCI have the opportunity to engage in research, get involved in student organizations and collaborate on interdisciplinary teams in addition to learning about entrepreneurship and starting companies while competing in computing contests, networking with corporate recruiters and interning at top companies. Students graduate with the skills and knowledge to pursue rewarding careers or continue their studies in graduate school.

MASTER’S

With Master’s programs in Computer Science, Cybersecurity, Information Technology, Bioinformatics, Architecture/Computer Science, Architecture/Information Technology, Data Science/Business Analytics and Health Informatics, CCI offers one of the fastest-growing and most diverse graduate programs in the country.

In addition to receiving a top-notch, nationally-ranked technical education, CCI students develop the kind of business savvy, entrepreneurial spirit and communication skills necessary for success in the workplace. Our students are regularly targeted for Fortune 500 employment opportunities, many of which begin as internships and mentoring relationships established in our Business Partners program.

PH.D. PROGRAM

CCI offers two prominent, and growing, Ph.D. programs.

Bioinformatics and Computational Biology sits at the intersection of biology, chemistry, computing and informatics, mathematics, and engineering, providing training in both life science and programming. The program prepares graduates for careers in academia and in the biotechnology sector, which has exploded in the past decade.

Computing and Information Systems is the largest and fastest growing doctoral program at UNC Charlotte. Uniquely designed to train Ph.D. students in innovative interdisciplinary research of societal relevance, the program is staffed by a multidisciplinary faculty of international stature, offering opportunities for students to develop advanced competencies in a number of related fields.

RESEARCH

Research initiatives are at the very heart of CCI’s mission. UNC Charlotte’s focus on research in the computing arena ranges from configuration analytics and automation capabilities to strategies and new technologies for innovation in computing and informatics education as well as robotics and sensing research for Homeland Security to address our society’s defense, intelligence and security challenges.

CCI’s Research opportunities are broad in scope and our current offering includes projects in the Top-5 Computer Science concentrations according to ITWorld.com: Artificial Intelligence and Robotics, Big Data Analysis, Computer-Aided Education, Bioinformatics and Cybersecurity.

Purposely inclusive, Research initiatives are open to Master’s and Doctoral candidates as well as undergraduates.
DEGREES OFFERED
- B.S. in Computer Science and Data Science
- B.A. in Computer Science
- M.S. in Computer Science, Cybersecurity, Bioinformatics and IT
- P.S.M. in Data Science and Business Analytics, Health Informatics
- Ph.D. in Bioinformatics, Computational Biology, Computing and Information Systems, and Data Science

RESEARCH @ CCI
Our Signature Areas:
- Cybersecurity & Biosecurity
- Data Analytics & Visualization
- Computational Biology & Genomics
- Robotics & Collaborative Systems
- Human-Centered Computing
- Computing Education
- Microbial Genomics

By the Numbers:
- Funding 2017: $13M
- Percentage of Faculty Funded: >80%
- Average Funding/Faculty: $270K
- Number of Grants: 70
- Main Funding Sources: NSF, NIH, DoD, ARO

Research Partners:
- UNC Charlotte Colleges: CoB, CLAS, CHHS, CA&A, CoE
- UNC Charlotte: Urban Research Institute, Institute Social Capital
- Charlotte: City of Charlotte, University City Partners, Envision Charlotte
- Business Partners: BoA, Duke Power, City, NorthState, (50 + partners)

REDEFINING DIVERSITY AND INCLUSION IN CS
The College of Computing and Informatics at UNC Charlotte is redefining the future of computing by creating an inclusive climate for all students, staff and faculty. Our goal is to expand and engage the participation of students that traditionally have not entered the computing field. We believe that in order to innovate in computing and informatics education and research, we must cultivate an atmosphere that is welcoming across all aspects of human diversity. We strive to be a preeminent creator and provider of talent and intellectual capital by empowering diversity of thought and experiences.

MISSION AND VALUES
The College of Computing and Informatics leads Education and Innovation in Computing and Informatics for the Betterment of Society.

We are committed to:
- Cultivating an inclusive culture dedicated to student success and equity in education
- Stimulating innovative and high risk high impact research and development
- Catalyzing a resilient and ethical society and communities with educated caring citizens

We are driven by the following Guiding Values:
- To acknowledge inequity and commit to do everything in our power to address it
- To take responsibility for the ethical implications of technology in everything we do
- To value community and value the well-being and sense of worth of all members

DYK?
- CCI's Early-Entry 4+1 Program allows Qualified Students to earn both a Bachelor's and a Master's Degree in just 5 Years
- CCI has 7 Current Faculty who have earned CAREER Awards from NSF and DOE
- CCI uses 3D Printing to make Prosthetic Arms and Hands for Children
- CCI has been an innovative leader in the study of Cybersecurity for 20 Years

Top-100 Computer Science
Top 40 Big Data Graduate Program
GAME DESIGN
Top-25 in the US
#7 in the South