

Academic Departments

- Computer Science
- Software and Information Systems
- Bioinformatics and Genomics
- School of Data Science

Degrees Offered

- B.S. and B.A in Computer Science
- . B.S. in Data 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 and Computing and Information Systems



Vision

A World with Equity in Computing and Humanity in Technology.

Mission

To empower people to shape the future through computing education, research, and engagement.

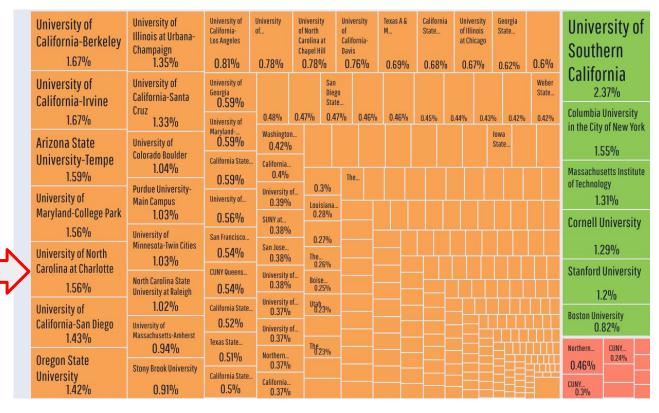
Guiding Principles

- To acknowledge inequity and do everything in our power to address it
- To take responsibility for the ethical implications of computing in everything we do
- To value intellectual curiosity at the service of scientific knowledge and sustainable progress



#6 nationally in the number of Computer Science graduates (BS, BA,









Why Computer Science or Data Science?

NC IT JOB POSTINGS / PAST 13 MONTHS



*Reporting as of 2/14/23 - Ongoing data updates/revisions may cause fluctuation in job numbers contained in previous monthly reports



Data pulled from NC IT Job Trends Report produced by North Carolina Technology Association 919-856-0393 / nctech.org

College of Computing and Informatics



Only at Charlotte,

- ... can you choose between 10+ Computer Science study concentrations;
- ... can you receive undergraduate degree in Data Science or a certificate in Sports Analytics;
- ... can you combine computing with human health and wellbeing through bioinformatics and genomics concentration;
- ... can you be at the forefront of the new generation of AI, creative Artificial Intelligence;
- ... can you receive a Masters degree in cybersecurity in only 5 years after high school;

• ...

CCI is a Leader in Innovation and Talent Development

Innovative pedagogical standard

- Embracing Agile methods
- Project based learning
- Design Thinking approach to engagement
- Use-inspired research

A vibrant and inclusive community

Access to resources and support

Real-world projects and internships

Internationally Recognized Research

- Cyber Security and privacy
- Artificial Intelligence and data science
- Visualization and visual analytics
- Robotics, computer vision
- Human-centered computing
- Bioinformatics and biotechnology
- Computer science education
- High-performance and cloud computing

Engage at the forefront of the new generation of Al



Flavors of CS @ CLT

B.S. in Computer Science

- AI, Robotics, and Gaming
- Bioinformatics
- Data Science
- Software, Systems, and Networks*
- Cybersecurity
- Software Engineering
- Web and Mobile Applications

B.A. in Computer Science

- Bioinformatics
- Human-Computer Interaction
- Information Technology*

B.S. Data Science





Student Engagement in CCI at UNC Charlotte

- Starts Before Entering University
- Key to Success
- Serves the STEM Community
- Provides Practical Experiences
- Helps Students Find and Follow Path
- Opens Doors



Pre-College Examples

- Open House and Admitted Students Day
- Involvement in STEM activities and events at school
 - Ex: Nat. Science Foundation program for Coding at Northridge Middle School
- Charlotte Science and Engineering Fair
 - o February 2023
- University Transition Opportunities
 Program (UTOP) and 49er Intensive
 Transition





Engagement as a Key to Success

- Students Apply Learning
 - Active Learning
 - Build Community in Classes
 - Interactive with Instructor
 - Undergraduate Research
- Freshman Learning Community
 - Live and Learn Together
 - Strong Student Bonds
- Campus Work
 - Connecting with College Faculty and Staff
 - Working with Other Students in Major
 - Outreach to Campus Community



Serving the STEM Community

- Opportunities via Dean's Ambassadors Program
- Students in Technology, Academica, Research, and Service (STARS)
 - Fosters interest in STEM for K-12 students
 - Community Outreach
 - Promotes STEM for Traditionally Underrepresented Groups
- Computing Leaders Seminar (course)
- Center for Education Innovation
 - Promotes efforts of STARS and NC Tech Association
 - Organizes On-campus Events for K-12 students
 - Promotes research and innovations in teaching at Charlotte







Practical Experiences Through Clubs and Organizations

- Over fifteen CCI Clubs and Organizations
 - Associate of Computing Machinery and Association of Computing Machinery-Women
 - Girls Who Code
 - Game Developers Club
 - National Society of Black Engineers
 - App Ventures
 - Club for Al Research
- 49th Security Division
 - Large Cybersecurity Club
 - Competes in Ethical Hacking Events
 - Wins Regularly
- Charlotte Hack
 - Software Development Club
 - Gives Students Practical Software Development Experience
 - Competes in Software Development Projects and Wins Regularly



Advising and Student Development Services in CCI

- Advisors Assist Students with Establishing a Strong Foundation
 - Helps Develop Graduation Plan
 - Keeps Students on Track
 - Encourages Engagement (social, academic, research)
 - Promotes Opportunities for High Level Scholarship
 - Makes Referrals to Resources on Campus
 - Assists Students with Career/Internship Planning
- CCI Organized with Student Development Professionals and Faculty Advisors
- Major and Concentration Planning Starts Now
 - Two Degrees
 - Ten Major Concentrations





Business Partners Program



Create Connections & Relationships

- CCI Undergraduates and Graduate students
- CCI Leadership, Faculty & Staff
- Prospective Interns and Future Graduate Hires
- Broader University Contacts

Help CCI Students with

- Mock Interviews
- Resume Building
- Career Fair Prep
- Building their Brand

Engage in Weekly Events

- Tech Talks on Relevant Topics
- Meet the CCI Students
- Quarterly Treks to Your Business
- Fall and Spring CCI Exclusive Career Fairs



Mentoring Program

- A CCI program geared to developing and fostering mentor/mentee relationships
- Benefits
 - Builds soft skills
 - Start and sustain professional relationships
 - Teaches how to be strong communicators
 - Develops mentoring as life skill
 - Creates self awareness
 - Encourages professional and personal growth
- Student led program facilitated by two undergraduate assistants











Thank you



