The Department of Computer and Information Science and Engineering (CISE) offers:

- Ph.D. in Computer Engineering, Computer Science, and Human-Centered Computing.
- Master of Engineering in Computer Engineering.
- Master of Science in Computer Engineering.
- Master of Science degree in Computer Science through the College of Engineering.
- Master of Science degree in Digital Arts and Sciences through the College of Engineering.
- Master of Science degree in Computer Science through the College of Liberal Arts and Sciences.

The CISE Department has six broad areas of specialization:

- **Computer systems**: computer architecture, distributed systems, networks and communication, operating systems, performance evaluation, security, mobile computing, software engineering, programming languages, multimedia systems, and web technologies
- **Database and information systems**: database management systems, database design, database theory and implementation, data mining, database machines, parallel and distributed databases, digital libraries, E-services and commerce, medical, and bio-informatics
- **High-performance computing/applied algorithms**: design and analysis of algorithms, data structures, parallel and distributed computing, medical algorithms, numerical methods, computational complexity, and applied computational geometry
- **Computer graphics, modeling, and art**: modeling methodology, simulation, virtual reality, aesthetic computing, computer arts, animation, real-time rendering, medical modeling, digital media, and musical acoustics
- **Intelligent systems and computer vision**: artificial intelligence, machine learning, visualization, image analysis and processing, pattern recognition, signal processing, biomedical imaging, and image databases
- **Computer networks and security**: wired and wireless networks, network routing and protocols, and QoS.

Applications for admission must be approved by both the Department and the college in which the student wishes to enroll. Applicants should have a strong computer science background.
• Dorr, Bonnie J.
• Gader, Paul D.
• Gilbert, Juan Eugene
• Helal, Abdelsalam Ali
• Helmy, Ahmed Abdelghaffar
• Kahveci, Tamer
• Lok, Benjamin
• Mishra, Prabhat Kumar
• Peters, Jorg
• Rangarajan, Anand
• Schneider, Markus Paul
• Shrimpton, Thomas
• Sitharam, Meera
• Thai, My Tra
• Traynor, Patrick

**Associate Professor**

• Anthony, Lisa
• Banerjee, Arunava
• Boucher, Christina A.
• Dobra, Alin Viorel
• Entezari, Alireza
• Gardner-McCune, Christina
• Grant, Christian Earl
• Jain, Eakta
• Kavalan, Jonathan C L
• McMullen, Kyla
• Ruiz, Jaime
• Sanders, Beverly A.
• Ungor, Alper
• Wang, Zhe
• Wilson, Joseph N.
• Xia, Ye

**Assistant Professor**

• Bindschaedler, Vincent Christophe
• Chuyew Yee, Sharon Lynn
• Fairbanks, James Paul
• Graim, Kiley S.
• Huang, Kejun
• Jiang, Zhe
• Ragan, Eric D.
• Rampazzi, Sara
• Thebaut, Stephen M.
• Toler-Franklin, Corey Theresa

**Senior Lecturer**

• Zhang, Rong

**Affiliated Faculty**

• Blanchard, Jeremiah J.
• Associate Engineer
• Fang, Ruogu
• Associate Professor
• Fortes, Jose A.
• Eminent Scholar
• Glenn, Alina Zare
• Professor
• Michailidis, George
• Professor
• Oliveira, Daniela
• Associate Professor
• Rashidi, Parisa
• Associate Professor
• Woodard, Damon
• Professor
• Yavuz, Tuba
• Associate Professor

**Distinguished Professor**

• Ranka, Sanjay
• Sahni, Sartaj Kumar
• Vemuri, Baba C.