COMPUTER AND INFORMATION SCIENCE AND ENGINEERING DEPARTMENT

Chair: J. Gilbert

The Department of Computer and Information Science and Engineering is concerned with the theory, design, development, and application of computer systems and information processing techniques. The mission of the CISE Department is to educate undergraduate and graduate majors as well as the broader campus community in the fundamental concepts of the computing discipline, to create and disseminate computing knowledge and technology, and to use our expertise in computing to help society solve problems.

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.

All master's students must satisfy a core requirement by completing the appropriate number of core courses as specified by their degree program. According to Graduate School rule, students must maintain a 3.0 overall GPA, as well as a cumulative 3.0 GPA for all courses taken from CISE, to graduate.Students can select a thesis or non-thesis option for the master's degree. Digital Arts and Sciences students must choose either thesis or project in lieu of thesis. All options require a minimum of 30 credit hours. The thesis degree requires:

- A minimum of 6 credit hours must be taken in CIS 6971 Research for Master's Thesis (1-15 cr.).
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad (https://www.cise.ufl.edu/academics/grad/)

The non-thesis option requires:

- Each nonthesis master's student is required to pass a comprehensive examination.
- Specific degree requirements can be found at: https://www.cise.ufl.edu/academics/grad (https://www.cise.ufl.edu/academics/grad/)

The Digital Arts and Sciences project in lieu of thesis option requires 6 credit hours of project/performance credits.

To demonstrate breadth and proficiency, all Ph.D. students must take required core courses. Depending upon the major, they must earn a 3.4 GPA in specific (to the major) required core courses, with no more than one of the core courses receiving a letter grade below B, to be eligible to take the Ph.D. qualifying examinations.

Ph.D. students are required to take a minimum of 90 credit hours. Of these, at least 36 hours must be graduate-level CISE course work excluding individual study and research credits. A minimum of 3 hours must be taken in CIS 7980 Research for Doctoral Dissertation (1-15 cr.). A maximum of 30 credits may be awarded toward the Ph.D. degree from an appropriate master's degree.

The Database Systems Research and Development Center, the Software Engineering Research Center, the Center for Computer Vision and Visualization Center, and a number of other campus research centers provide opportunities for students enrolled in the program.

The department offers a combination bachelor's/master's degree program. Contact the Department's Student Services Center for information.

For more information, please see the program pages below, or visit our website: http://www.cise.ufl.edu

Majors

- Computer Science (CLAS) (http://gradcatalog.ufl.edu/graduate/colleges-departments/liberal-arts-sciences/computer-information-science-engineering/computer/)

Faculty

Professor

- Boyer, Kristy
- Butler, Kevin
- Chen, Shigang

- Dorr, Bonnie J.
- Kahveci, Tamer
- Kumar Jha, Sumit
- Lok, Benjamin
- Mishra, Prabhat Kumar
- Peters, Jorg
- Rangarajan, Anand
- Sitharam, Meera
- Thai, My Tra
- Traynor, Patrick
- Wang, Zhe

- Fang, Ruogu
  Associate Professor
- Fortes, Jose A.
  Eminent Scholar
- Glenn, Alina Zare
  Professor
- Li, Yanjun
  Assistant Professor
- Rashidi, Parisa
  Professor
- Woodard, Damon
  Professor
- Yavuz, Tuba
  Associate Professor

Associate Professor

- Anthony, Lisa
- Banerjee, Arunava
- Boucher, Christina A.
- Chuyew Yee, Sharon Lynn
- Dobra, Alin Viorel
- Entezari, Alireza
- Gardner-McCune, Christina
- Grant, Christan Earl
- Jain, Eakta
- Jiang, Zhe
- Kavalan, Jonathan C L
- McMullen, Kyla
- Ragan, Eric D.
- Ruiz, Jaime
- Ungor, Alper
- Xia, Ye

Assistant Professor

- Bindschaedler, Vincent Christophe
- Dorley, Emmanuel Johnson
- Fairbanks, James Paul
- Graim, Kiley S.
- Huang, Kejun
- Lei, Yuanyuan
- Rampazzi, Sara
- Sun, Jingwei
- Tran, Dung

Distinguished Professor

- Gilbert, Juan Eugene
- Ranka, Sanjay
- Sahni, Sartaj Kumar
- Vemuri, Baba C.

Senior Lecturer

- Zhang, Rong

Affiliated Faculty

- Blanchard, Jeremiah J.
  Associate Engineer