

University of Florida

Academic Affairs

Academic Colleges

College of Engineering

Computer & Information Science & Engineering

Computer Science (PhD)

Ph.D. in Computer Science Mission

A.1. CISE Mission:

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.

A.2. College of Engineering Mission

The College of Engineering fosters and provides world-class programs in engineering education, research and service to enhance the economic and social well-being of the citizens of Florida, the nation and the world.

A.3. University of Florida Mission

The University of Florida faculty renews its commitment to serve the citizens of Florida and educate students so they are prepared to make significant contributions within an increasingly global community. In affirming the university's academic mission, we honor the human component of our mission: our students, faculty, staff and administrators; and recognize the importance of these human resources to the university's success. Towards this affirmation, the University of Florida faculty specifically encourages a campus-wide culture of caring. It is the mission of the University of Florida to offer broad-based, exclusive public education, leading-edge research and service to the citizens of Florida, the nation and the world. The fusion of these three endeavors stimulates a remarkable intellectual vitality and generates a synthesis that promises to be the university's greatest strength.

The university maintains its dedication to excellent teaching and researching by creating a strong and flexible foundation for higher education in the 21st century. While the faculty remains committed to key aspects of the university's original mission, changing times will require that we continually expand and evaluate our academic aspiration. We do this in order to assure that quality education at the University of Florida remains the highest goal and most valued contribution to society.

The University of Florida belongs to a tradition of great universities. The faculty and staff of the university are dedicated to the common pursuit of its mission of education, research and service. Together with our undergraduate and graduate students we participate in an educational process that links the history of Western Europe with the traditions and cultures of all societies, that explores the physical and biological universes, and that nurtures generations of young people from diverse backgrounds to address the needs of our societies. The university welcomes the full exploration of our intellectual boundaries and supports our faculty and students in the creation of new knowledge and the pursuit of new ideas.

Teaching is a fundamental purpose of this university at both the undergraduate and graduate levels. Research and scholarship are integral to the education process and to the expansion of our understanding of the natural world, the intellect and the senses. Service reflects the university's obligation to share the benefits of its research and knowledge for the public good.

These three interlocking elements span all of the university's academic disciplines and represent the university's commitment to lead and serve the State of Florida, the nation, and the world by pursuing and disseminating new knowledge while building upon the experiences of the past. The University of Florida aspires to advance the state, nation and the international community by strengthening the human condition and improving the quality of life.

A.4. Mission Alignment:

The program mission clearly aligns with the college and the university missions. The program addresses the concerns with the theory, design, development, and application of computer and information systems. Its mission emphasizes research, education, services, and contribution to the society.

Responsible Roles:

Program: Computer Science (PhD)

Progress:

PG1: Maintain computing infrastructure that meets program needs

Maintain computing infrastructure that meets program needs.

Evaluation Method

We continue to improve our infrastructure for the program measured by the fund we spent on improving our computing facility and equipment. With a new IT Performance Funding, we brought a number of large computing servers to improve our computing facility to facilitate several new and existing courses to teach our graduate students.

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

PG2: Improve ratio of enrolled students per admitted students

Improve ratio of enrolled students per admitted students. We continue setting this goal to measure our recruiting efforts.

Evaluation Method

The ratio of enrolled / admitted PhD students.

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

PG3: Increase diversity of graduate students

Increase diversity of graduate students.

Evaluation Method

Assess demographics of current graduate student body.

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

SLO1: Knowledge

Knowledge: Students identify, formulate, and solve computer science and engineering problems.

SLO Area (select one): Knowledge (Grad)

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

Assessment Method

Student's supervisory committee follows the SLO Assessment Rubrics for knowledge to evaluate students during the Ph.D. final thesis defense.

SLO2: Knowledge

Knowledge: Students can critically read computer science and engineering literature.

SLO Area (select one): Knowledge (Grad)

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

Assessment Method

Student's supervisory committee follows the SLO Assessment Rubrics for knowledge to evaluate students during the Ph.D. final thesis defense.

SLO3: Skills

Skills: Students use the techniques, skills, and tools necessary for computer science and engineering practice at an advanced level.

SLO Area (select one): Skills (Grad)

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

Assessment Method

Student's supervisory committee follows the SLO Assessment Rubrics for skill to evaluate students during the Ph.D. final thesis defense.

SLO4: Professional Behavior

Professional experience: an understanding of professional and ethical responsibility.

SLO Area (select one): Professional Behavior (Grad)

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

Assessment Method

Students must take an exam with questions on ethics.

SLO5: Professional Behavior

Professional experience: Students can communicate effectively.

SLO Area (select one): Professional Behavior (Grad)

Responsible Role: Associate Professor (Peir, Jihkwon)

Progress: Ongoing

Assessment Method

The exit interview faculty and staff follow the SLO Assessment Rubrics for communication to evaluate students during the exit interview.

Ph.D. in Computer Science Detail

Start: 7/1/2016

End: 6/30/2017

Progress:

Providing Department: Computer Science (PhD)

Responsible Roles:

Research (Graduate and Professional AAPs only)

The department offers seven research areas:

1. Computer graphics, modeling and art
2. Computer systems
3. Computer vision and intelligent system
4. Database and information systems
5. High-performance computing and algorithms
6. Networks and security
7. Human-Center Computing

The CISE department at the University of Florida provides many opportunities for research at all levels. All of our

Ph.D. students are expected to perform original, publishable research in the Computer and Information Science and Engineering fields. Our Ph.D. students will usually publish in high quality IEEE or ACM journals and conferences. Many of our Ph.D. students learn to do research by collaborating with their advisors and by working as Graduate Research Assistants.

Students are sometimes involved in government supported researches such as National Science Foundation Research, as well as researches supported by industry to gain research experience.

Assessment Timeline (Graduate and Professional AAPs only)

Assessment	Assessment 1	Assessment 2
SLOs		
Knowledge		
#1	Final thesis exam	
#2	Final thesis exam	
Skills		
#3	Final thesis exam	
Professional Behavior		
#4		On-line ethics tutorial & quiz
#5	Final thesis exam	

Curriculum Map (UG AAPs only)

Assessment Cycle (All AAPs)

Year	15-16
SLOs	
Content Knowledge	
#1	Fall 15
#2	Fall 15
Skills	
#3	Fall 15
Professional Behavior	
#4	Fall 15
#5	Fall 15

Methods and Procedures (UG and Certificate AAPs)

SLO Assessment Rubric (All AAPs)

Measurement Tools (Graduate and Professional AAPs Only)

Knowledge and Skill: We distribute an evaluation form with score sheet to the supervisory committee chair of all Ph.D. students when they take the final thesis exam. The chair and committee members make a thorough evaluation based on student's performance and presentation.

Professional Behavior: The department establish online ethics tutorial and quiz for all graduate students. All students must take the tutorial and quiz before graduation. Students who do not reach to the minimum requirement (answer 90% of the questions correctly), are allowed to retake the test again until they reach the goal.

Assessment Oversight (All AAPs)

Academic Assessment Plan Entry Complete: ☐

