

ICS Graduate Program: Student Learning Outcomes

M.S. Program:

The ICS M.S. graduate program provides courses for advanced education in Computer Science and affords opportunities to conduct research. Our objective is to help students achieve a high level of professional competence and lifelong learning, with the following Student Learning Objectives:

1. Master core computer science theoretical concepts, practices and technologies;
2. Identify, formulate and solve problems employing knowledge within the discipline;
3. Contribute effectively to collaborative team oriented activities;
4. Communicate effectively about computer science topics using appropriate media;
5. Demonstrate advanced knowledge in an area of specialization within the discipline;
6. Engage in significant research in their area of specialization within the discipline and/or in projects that respond to community and industry needs.

Ph.D. Program:

The ICS Ph.D. graduate program provides advanced, individualized training in research in Computer Science, preparing students for research careers in academia and industry. Beyond those for the M.S. program, the Ph.D. program involves the three following Student Learning Objectives:

7. Develop a research portfolio that demonstrates the capacity to carry out original research in the field;
8. Become an expert in the area of specialization including mastery of the relevant research skills and methods, develop a research vision, and formulate a research plan that will lead to novel scientific contributions;
9. Execute a research plan and demonstrate original contributions to the field, as shown through findings and/or publications, culminating in a Ph.D. dissertation and oral defense.