Computer Science CSC 470X
Senior Internship

Credits and contact hours: Credit hours: 3, Contact Hours: students are required to complete 150 hours at the internship; faculty contact is primarily via email with one on-site visit and supervision of a final paper and presentation of the internship experience

Instructor: Michelle Snell

Text book: N/A

Specific course information
a. Catalog description: This course is designed to be a senior capstone experience in which the student is expected to demonstrate mastery of the skills and concepts acquired throughout the major curriculum. The internship is required to match the individual’s major program and have an emphasis on the application of classroom knowledge to actual practice. All internships must be approved by the faculty of the department. Due to the capstone nature of the course, senior status within the major is a required pre-requisite.
b. Prerequisites: Permission of the instructor
c. Required/Elective:
   i. Software Engineering - required

Specific goals for the course
a. Specific outcomes of instruction
   a. The student will collaborate with the on-site supervisor to establish internship goals and objects with an action plan to meet those objectives.
b. The student will effectively apply skills and knowledge acquired through the Software Engineering program to the tasks presented on the job
c. The student will effectively communicate with the faculty internship supervisor to enable evaluation of the progress toward goals on a weekly basis
d. The student will participate in an on-site visitation involving the faculty supervisor and on-site supervisor and appropriately address any concerns raised
e. The student will write a 10-12 page paper from a technical and experiential perspective that effectively summarizes the internship experience.
f. The student will create and effectively deliver a summary presentation of the internship experience.
b. CAC Criterion 3 outcomes addressed by the course:
   a. An ability to apply knowledge of computing and mathematics appropriate to the discipline.
e. An understanding of professional, ethical, legal, security, and social issues and responsibilities.
f. An ability to communicate effectively with a range of audiences.

h. Recognition of the need for and an ability to engage in continuing professional development.

i. An ability to use current techniques, skills, and tools necessary for computing practice.

c. EAC Criterion 3 outcomes addressed by the course:
   a. An ability to apply knowledge of mathematics, science, and engineering
   d. An ability to function on multidisciplinary teams.
   f. An understanding of professional and ethical responsibility
   g. An ability to communicate effectively
   h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
   i. A recognition of the need for, and an ability to engage in life-long learning.
   j. A knowledge of contemporary issues.
   k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Brief list of topics to be covered

This course is not topics-based or held in a traditional classroom environment.