Department of Computer and Information Sciences

**Department of Electrical and Computer Engineering**

Program Type:\* 

Degree Type:\* 

Describe the rationale for the deletion(s):

The MS Soft. Eng. was established provisionally by a faculty senate resolution from Feb. 2010.   The program is run by the Departments of Computer & Information Sciences and Electrical & Computer Engineering.

As mentioned in the 2010 Faculty Senate resolution, a major factor in the decision to initiate the program was the expectation of a “substantial demand for graduate level software engineering expertise” from the “US Army facility at Aberdeen.” Based on conversations with representatives from that facility, there was an expectation that approximately 30 students per year from the facility would enroll in the MSSE program. That demand, however, never materialized, and very few students from the facility have enrolled. In fact, most of the MSSE students (approximately 75%) have come from other countries; others are employees at local firms, and only a few are from the Army facility.

The provisional period lasted 5 years and a motion for permanent status was never put forward.  The two departments subsequently decided to stop accepting students into the program but to allow enrolled students to complete their degrees.   A total of 18 students graduated with the MS Soft. Eng. degree.  Today there are no students remaining in the program.

Credit Requirements:

Description

The Master of Science - Software Engineering program requires 30 credit hours of course work. The 30-credit course program of each student must include:

Fifteen (15) credits of core requirement courses.

Twelve (12) credits of a specialization track courses.

Three (3) credits of practicum.

The core courses may be taken in any order. However, all core courses must be completed before the student begins the practicum. The specialization courses may be taken at any time and in any order, as long as all course pre- and co-requisites are respected.

The core courses are:

CISC 611 Software Process Management (3cr.)

or

CPEG 611 Software Process Management (3cr.)

CISC 612 Software Design (3cr.)

or

CPEG 612 Software Design (3cr.)

CISC 613 Software Requirements Engineering (3cr.)

or

CPEG 613 Software Requirements Engineering (3cr.)

CISC 614 Formal Methods in Software Engineering (3cr.)

or

CPEG 614 Formal Methods in Software Engineering (3cr.)

CISC 615 Software Testing and Maintenance (3cr.)

or

CPEG 615 Software Testing and Maintenance (3cr.)

Specialization Track

Title

Specialization Track

Description

The specialization track is determined by the student's interests and must be approved by the student's advisor. The selected courses should form a coherent whole, giving the student a degree of expertise in a single area. Examples of specialization tracks may be found on the program website.

Practicum

Title

Practicum

Description

The practicum (CISC 691/CPEG 691) will be guided by the individual student's interests. It must be arranged with, and approved by, a CIS or ECE faculty member. The student will contribute to a significant software engineering project either on campus or in association with an off-campus organization such as a private business or government agency.

CISC - 611 - Software Process Management (3cr.)

CISC - 612 - Software Design (3cr.)

CISC - 613 - Software Requirements Engineering (3cr.)

CISC - 614 - Formal Methods in Software Engineering (3cr.)

CISC - 615 - Software Testing and Maintenance (3cr.)

CPEG - 611 - Software Process Management (3cr.)

CPEG - 612 - Software Design (3cr.)

CPEG - 613 - Software Requirements Engineering (3cr.)

CPEG - 614 - Formal Methods in Software Engineering (3cr.)

CPEG - 615 - Software Testing and Maintenance (3cr.)