Software Engineering, MSSE

The CPE program offers two plans leading to the MSSE. These are designated:

- Plan I (Thesis)

- Plan II (Non-thesis)

The following sections describe the requirements for each of these options. Students must consult their faculty advisor when constructing their program of study.

Basic Program of Study

The Basic Program of Study, common to both Plan I and Plan II MSSE options, contains a minimum of 24 semester hours of graduate-level coursework that must include:

Code	Title	Semester Hours
Computer Science Core		
CS 650	SOFT'W ENGINEERING PROC	3
CS 617	DES & ANALY OF ALGORITHM	3
CS 652	OBJECT-ORIENTED DESIGN	3
Select one of the following (CS 690, CS 613, CPE 536, CPE 631)		
Cybersecurity (Choose one)		
CPE 549	INTRO TO CYBERSECURITY ENGINRG	3
CS 585	INTRO TO COMPUTER SECURITY	3
or CS 685	COMPUTER SECURITY	
Select 6 hours from one concentraion		**6**
Area 1: Big Data/Data Mining (CS 554, CS 637, CS 640, or CS 641)		
Area 2: Project Management (ISE 690-required and EM 660, MGT 601 or MKT 604)		
Area 3: Parallel Programming (CPE 512, CPE 612, CPE 613)		
Area 4: Embedded Systems (CPE 538, CPE 523, CPE 621)		
Area 5: Advanced Cybersecurity (CPE 649, CPE 645, IS 663)		
Elective (approved by advisor)		**3**
Total Semester Hours		**24**

Plan I, Thesis Option

Students selecting this option must:

Code	Title	Semester Hours
Complete the Basic Program of Study as described above		24
CPE 699	MASTER'S THESIS	6
Total Semester Hours		**30**

Plan II, Non-thesis Option

Students selecting this option must:

Code	Title	Semester Hours
Complete the Basic Program of Study described above		24
Select 3 hour elective approved by advisor		3
Capstone CPE 657		3
Total Semester Hours		**30**