CMPE-MS Graduate Track/Specialty Area

Name of Track:	Computer Systems
Faculty Member(s) using track:	Krishna Kavi, Phil Sweany, Saraju Mohanty, Song Fu,

Required Courses for Computer Systems Tracks: 9 credits (must include the core course 5610)

Course Number	Course Name	Credits	Semester Taken
CSCE 5160	Parallel Processing and Algorithms	3	
CSCE 5450	Programming Languages	3	
CSCE 5610	Computer System Architecture (core course)	3	
CSCE 5650	Compiler Design	3	
CSCE 6450	Advanced Programming Languages	3	
CSCE 6610	Advanced Computer Architecture	3	
CSCE 6640	Advanced Operating Systems	3	
CSCE 6650	Advanced Compiler Techniques	3	

Track Core Courses: Each track will require a minimum of 9 credits to be chosen from a list of at least 3 courses. This list may include specific courses that students must take, provide a choice between a short list of courses, or any combination thereof. To qualify for the master's degree, a student must earn a grade of "B" or better in each of the core and required courses.

Other Core Courses Required:	2	
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Course Number

Course Number	Course Name	Credits	Semester Taken
CSCE 5510	Wireless Communications (core course)	3	
CSCE 5580	Computer Networks (core course)	3	
CSCE 5640	Operating System Design (core course)	3	
CSCE 5730	Digital CMOS VLSI Design (core course)	3	

Track Supporting Courses: Tracks are expected to provide a list of supporting courses. Tracks may require a student to take courses from the supplemental list based on the following:

- for <u>thesis option</u>: The maximum number of required courses across the track (**core and supporting**) should not exceed 21 credits (not including thesis). For MS with thesis, the total number of hours required is 30. This leaves a minimum of 3 credit hours free for the student to choose.
- for <u>course option</u>: The maximum number of required courses across the track (**core and supporting**) should not exceed 21 credits. For MS without thesis, the total number of hours required is 36. This leaves a minimum of 15 credit hours free for the student to choose.
- Only one CSCE 5934 Directed Study course is permitted and CSCE 5932 Internship course may not be included on the degree plan. To continue in good standing, a student must maintain a 3.0 GPA overall.

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Supporting Courses Required: 2/	(may include core courses not selected)
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Course Name

Course Number	Course Name	Credits	Semester Taken
CSCE 5440	Real-Time Software Development	3	
CSCE 5520	Wireless Networks and Protocols	3	
CSCE 5530	Computer Network Design	3	
CSCE 5540	Introduction to Sensor Networks	3	
CSCE 5620	Real-Time Operating Systems	3	
CSCE 5740	Topics in Modern Electronic System Design	3	
CSCE 5760	Design for Fault Tolerance	3	
CSCE 5910	Special Problems	3	
CSCE 5934	Directed Study	3	
CSCE 6581	Advanced Computer Networks	3	
CSCE 6590	Advanced Topics in Wireless Communications and Networks	3	
CSCE 6620	Advanced Real-Time Operating Systems	3	
CSCE 6731	Advanced Topics in VLSI Systems	3	

Total Required Courses for Track/Specialty Area:	7/7	

Samastar Takan