

Graduate Track/Specialty Area

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Name of Track: Systems

Faculty Member(s) using track: Tom Jacobs, Krishna Kavi, Hao Li, Armin Mikler, Saraju Mohanty, Phil Sweany

Required Courses for all Tracks: *4 credits (Algorithms and 1-hour seminar course) are required for all tracks.*

Course Number	Course Name	Credits	Semester Taken
CSCE 5020	Current Research in CSE	1	
CSCE 5150	Analysis of Computer Algorithms	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.*

Core Courses Required: 3

Course Number	Course Name	Credits	Semester Taken
CSCE 5160	Parallel Processing and Algorithms	3	
CSCE 5610	Computer Systems Architecture	3	
CSCE 5640	Operating System Design	3	
CSCE 5650	Compiler Design	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 thesis option: The maximum number of required courses across the track (core and supporting) should not exceed 15 credits (not including thesis). For MS with thesis, the total number of hours required is 31. This leaves a minimum of 6 credit hours free for the student to choose.*
- *for course option: 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 37. This leaves a minimum of 12 credit hours free for the student to choose.*
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Supporting Courses Required: 2/3 *(may include core courses not selected)*

Course Number	Course Name	Credits	Semester Taken
CSCE 5170	Graph Theory	3	
CSCE 5290	Natural Language Processing	3	
CSCE 5400	Automata Theory	3	
CSCE 5450	Programming Languages	3	
CSCE 5550	Introduction to Computer Security	3	
CSCE 5580	Computer Networks	3	
CSCE 5620	Real-Time Operating Systems	3	
CSCE 5760	Design for Fault Tolerance	3	
CSCE 6610	Advanced Computer Architecture	3	
CSCE 6650	Advanced Compiler Techniques	3	

Total Required Courses for Track/Specialty Area: 5/6

Major Professor: _____

Graduate Coordinator: _____ Date: _____
Dr. Armin Mikler

Department Chair: _____ Date: _____
Dr. Krishna Kavi