CSCI-MS
Graduate Track/Specialty Area
Worksheet

Name of Track: Systems

Faculty Member(s) using track: Krishna Kavi, 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. One 6000 level course must be included on your degree plan.*
- *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. One 6000 level course must be included on your degree plan.*

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