

CSCI-MS

Graduate Track/Specialty Area

Worksheet

Name of Track: Artificial Intelligence

Faculty Member(s) using track: Bill Buckles, Cornelia Caragea, Rodney Nielsen, Kathy Swigger, Paul Tarau, and Xiaohui Yuan

Required Courses for all Tracks: 3 credits (Algorithms) are required for all CSCI tracks.

Course Number	Course Name	Credits	Semester Taken
CSC 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
CSC 5200	Information Retrieval	3	
CSC 5210	Artificial Intelligence	3	
CSC 5215	Machine Learning	3	
CSC 5216	Pattern Recognition	3	
CSC 5270	Human Computer Interfaces	3	
CSC 5290	Natural Language Processing	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 30. 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 36. 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: 2/4 (may include core courses not selected)

Course Number	Course Name	Credits	Semester Taken
CSC 5170	Graph Theory	3	
CSC 5350	Database I	3	
CSC 5400	Automata Theory	3	
CSC 6100	Theory of Computation	3	
CSC 6210	Expert Systems	3	
CSC 6260	Adv Pattern Recognition and Image Processing	3	
CSC 6290	Advanced Man/Machine Intelligence	3	
CSC 6933	Selected Advanced Topics	3	

Total Required Courses for Track/Specialty Area: 6/8