

Graduate Track/Specialty Area

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Name of Track: Data Management & Analysis

Faculty Member(s) using track: Robert Brazile, Yan Huang, JuangHwan Oh, Xiaohui Yuan

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: 4

Course Number	Course Name	Credits	Semester Taken
CSCE 5350	Database Systems I	3	
CSCE 5360	Database Systems II	3	
CSCE 5xxx	Distributed and Parallel Database Systems	3	
CSCE 5xxx	Data Mining	3	
CSCE 6350	Advanced Database Design	3	
CSCE 6399	Multimedia Database Systems	3	

Supporting Courses Required: 1/3 *(may include core courses not selected)*

Course Number	Course Name	Credits	Semester Taken
CSCE 5170	Graph Theory for Computer Scientists	3	
CSCE 5200	Information Retrieval and Web-Search	3	
CSCE 5210	Artificial Intelligence	3	
CSCE 5213	Modeling and Simulation	3	
CSCE 5215	Machine Learning	3	
CSCE 5271	Computer-Human Interfaces	3	
CSCE 5399	Multimedia Computing	3	
CSCE 5450	Programming Languages	3	
CSCE 5640	Operating System Design	3	
CSCE 5xxx	Digital Image Processing	3	
CSCE 5xxx	Bio Computing	3	

Total Required Courses for Track/Specialty Area: 5/7

Major Professor: _____

Graduate Coordinator: _____ **Date:** _____
Dr. Armin Mikler

Department Chair: _____ **Date:** _____
Dr. Krishna Kavi