

Graduate Track/Specialty Area

Return completed form to your Graduate Professor

Please Print

Name of Track: Algorithms and Theoretical Computer Science

Faculty Member(s) using track: Tom Jacob, Ian Parberry, Robert Renka, Farhad Shahrokhi

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 5170	Graph Theory for Computer Scientists (required)	3	
CSCE 5400	Automata Theory (required)	3	
CSCE 6100	Theory of Computation	3	

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

Course Number	Course Name	Credits	Semester Taken
CSCE 5212	Foundations of Logic Programming	3	
CSCE 5213	Modeling and Simulation	3	
CSCE 5230	Methods of Numerical Computation	3	
CSCE 5650	Compiler Design	3	
CSCE 6150	Complexity of Parallel Computation	3	
CSCE 6480	Computability	3	

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

Major Professor: _____

Graduate Coordinator: _____ Date: _____

Dr. Armin Mikler

Department Chair: _____ Date: _____

Dr. Krishna Kavi