

# Graduate Track/Specialty Area

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Name of Track: Scientific Computing

Faculty Member(s) using track: Armin Mikler, Robert Renka

**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 5220	Computer Graphics	3	
CSCE 5230	Methods of Numerical Computations	3	
CSCE 5933	Topics in Computer Science and Engineering	3	

Supporting Courses Required: 2/4 (may include core courses not selected)

Course Number	Course Name	Credits	Semester Taken
CSCE 5160	Parallel Processing and Algorithms	3	
CSCE 5170	Graph Theory for Computer Scientists	3	
CSCE 5213	Modeling and Simulation	3	
CSCE 5350	Database Systems I	3	
CSCE 5610	Computer Systems Architecture	3	
CSCE 5640	Operating Systems Design	3	
CSCE 6150	Complexity of Parallel Computation	3	
CSCE 6220	Advanced Computer Graphics	3	
CSCE 6230	Advanced Scientific Computing	3	
CSCE 6933	Advanced Topics in Computer Science & Engineering	3	

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

Major Professor: \_\_\_\_\_

Graduate Coordinator: \_\_\_\_\_ Date: \_\_\_\_\_

*Dr. Armin Mikler*

Department Chair: \_\_\_\_\_ Date: \_\_\_\_\_

*Dr. Krishna Kavi*