

Graduate Track/Specialty Area

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Name of Track: VLSI CAD

Faculty Member(s) using track: Hao Li, Saraju Mohanty, 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 5610	Computer Systems Architecture	3	
CSCE 5730	Digital CMOS VLSI Design	3	
CSCE 5933	Introduction to VLSI CAD	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.
- 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.

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

Course Number	Course Name	Credits	Semester Taken
CSCE 5170	Natural Language Processing	3	
CSCE 5213	Modeling and Simulation	3	
CSCE 5230	Methods of Numerical Computations	3	
CSCE 5650	Compiler Design	3	
CSCE 5760	Design for Fault Tolerance	3	
CSCE 5910	Special Problems	3	
CSCE 5934	Directed Study	3	
CSCE 6651	Advanced VLSI Systems	3	

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

Major Professor: _____

Graduate Coordinator: _____ Date: _____

Dr. Armin Mikler

Department Chair: _____ Date: _____

Dr. Krishna Kavi