

Master of Science in Mathematics

Date: February 8, 2006

Decree Codes: ES MS MATH

Contact: Prof. Bernd Schröder

SCH Requirements: 30 SCH (thesis option) or 36 SCH (practicum)
Thesis Option: Research & Thesis SCH toward degree: 6
Practicum Option: Practicum SCH toward degree: 3
Course-work only option: Not available

There are four core areas (Numerical Analysis and Partial Differential Equations, Discrete Mathematics, Statistics, Computing), and students must take at least one prescribed core course from at least three of the core areas.

Core category	Core Courses	SCH
Numerical Analysis and Partial Differential Equations	MATH 407 Partial Differential Equations or MATH 414 Numerical Analysis or MATH 415 Numerical Analysis	3
Discrete Mathematics	MATH 460 Number Theory or MATH 435 Graph Theory	3
Statistics	STAT 506 Regression Analysis or STAT 507 Analysis of Variance or STAT 511 Design of Experiments	3
Computing	CSC 428 Object Oriented Programming and Data Structures or CSC 438 Advanced Data Structures and Algorithm Design	3
Other courses	<i>The remaining courses are to be selected by the student and the advisory committee so as to provide the required background for research and a productive career.*</i>	Thesis: 21 Practicum: 27

THESIS OPTION				PRACTICUM OPTION		
Course Category	Number	Course Name	SCH	Number	Course Name	SCH
Thesis or Practicum	MATH 551	Research & Thesis in Mathematics	6	MATH 555	Practicum	3
TOTAL			30			36

* At least 15 SCH of courses need to be 500 level or above. The maximum number of variable credit Independent Study courses that can be applied towards the degree is 6 SCH.