

MATHEMATICS, PH.D.

Seventy-two semester hours of approved graduate courses are required for the Ph.D. degree in mathematics (see below). Other requirements include passing a Qualifying Exam in two of the four year-long core areas (abstract algebra, applied mathematics, real variables, and topology), passing a Preliminary Examination administered by a committee headed by the student's dissertation advisor, and a successful defense of a dissertation. No foreign language is required for the Ph.D. degree.

Core Curriculum

Code	Title	Hours
Core Courses		
Students must earn a grade of B or better in each of the seven core courses.		
MTH 5310	Advanced Abstract Algebra I	3
MTH 5323	Theory of Functions of Real Variables I	3
MTH 5330	Topology	3
MTH 5350	Complex Analysis	3
Select three courses from the following:		9
MTH 5311	Advanced Abstract Algebra II	
MTH 5324	Theory of Functions of Real Variables II	
MTH 5331	Algebraic Topology I	
MTH 5360	Applied Mathematics I	
MTH 5361	Applied Mathematics II	
Dissertation		
MTH 6V99	Dissertation	12
Electives		
Select 39 semester hours from the following:		39
Any 4000-level MTH course carrying graduate credit or higher		
Any 5000-level or higher STA course		
Or other graduate electives only as approved by the Department of Mathematics		
Total Hours		72