

Mathematics (PhD)

Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		9	
See "Required Courses by Category" listed below			
Additional Courses *		63	
"Additional Courses" are approved in conjunction with the academic committee to meet 72 total hours			
Total Hours		72	

* At least 30 credit hours of MA coursework must be at the graded 500- and 700-level.

Required Coursework by Category

Code	Title	Hours	Counts towards
Select one course from each of the following categories:		9	
Continuous Mathematics			
MA 513	Introduction To Complex Variables	3	
MA 515	Analysis I	3	
MA 531	Dynamic Systems and Multivariable Control I	3	
MA 532	Ordinary Differential Equations I	3	
MA 534	Introduction To Partial Differential Equations	3	
MA 546	Probability and Stochastic Processes I	3	
MA 551	Introduction to Topology	3	
MA 555	Introduction to Manifold Theory	3	
Discrete Mathematics			
MA 505	Linear Programming	3	
MA 520	Linear Algebra	3	
MA 521	Abstract Algebra I	3	
MA 523	Linear Transformations and Matrix Theory	3	
MA 524	Combinatorics I	3	
MA 526	Mathematical Analysis II	3	

Computational Mathematics		
MA 522	Computer Algebra	3
MA 540	Uncertainty Quantification for Physical and Biological Models	3
MA 565	Graph Theory	3
MA 573	Mathematical Modeling of Physical and Biological Processes I	3
MA 580		3

Faculty

Full Professors

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John E. Franke

Ronald O. Fulp

Dennis E. Garoutte

Robert E. Hartwig

Aloysius G. Helminck

Robert H. Martin Jr.

Thomas J. Lada

Joe A. Marlin

Carl Meyer Jr.

Larry Keith Norris

Sandra Paur

Lavon Barry Page

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Stephen Schecter

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