

Applied Mathematics (PhD): Interdisciplinary Applied Math Concentration

Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		66	
See "Required Courses" listed below			
Additional Courses		6	
Select a minimum of two "Additional Courses" from other disciplines approved in conjunction with the academic committee			
Total Hours		72	

Required Courses by category

Code	Title	Hours	Counts towards
Select at least one course from each category below:			
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/CS 565	Graph Theory	3
MA 573	Mathematical Modeling of Physical and Biological Processes I	3
MA 580	Numerical Analysis I	3

Faculty

Full Professors

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