

Applied Mathematics (PhD)

Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		72	
See "Required Courses" listed below *			
Total Hours		72	

* Must contain a minimum of 30 credit hours of 500-level or above MA courses

Required Courses

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

Bojko Nentchev Bakalov
 Alina Emil Chertock
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 Patrick Louis Combettes
 Pierre Alain Gremaud
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 Arkady Kheyfets
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 Rachel Levy
 Zhilin Li
 Xiao-Biao Lin
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 Negash G. Medhin
 Kailash Chandra Misra
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 Tao Pang

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Jack William Silverstein

Ralph Conover Smith

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Associate Professors

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Assistant Professors

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Yerkin Kitapbayev

Zane Kun Li

Tye Lidman

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Practice/Research/Teaching Professors

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L. Castle

Alina Nicoleta Duca

Molly A. Fenn

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Brenda B. Williams

Emeritus Faculty

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Michael F. Singer

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