Mathematics (MS)

Master of Science Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		**9**	
Select one course from each of the following categories:			
Continuous Mathematics			
MA 513	Introduction To Complex Variables		
MA 515	Analysis I		
MA 531	Dynamic Systems and Multivariable Control I		
MA 532	Ordinary Differential Equations I		
MA 534	Introduction To Partial Differential Equations		
MA 546	Probability and Stochastic Processes I		
MA 551	Introduction to Topology		
MA 555	Introduction to Manifold Theory		
Discrete Mathematics			
MA 505	Linear Programming		
MA 520	Linear Algebra		
MA 521	Abstract Algebra I		
MA 523	Linear Transformations and Matrix Theory		
MA 524	Combinatorics I		
MA 526	Mathematical Analysis II		
Computational Mathematics			
MA 522	Computer Algebra		
MA 540	Uncertainty Quantification for Physical and Biological Models		
MA 565	Graph Theory		
MA 573	Mathematical Modeling of Physical and Biological Processes I		
MA 580	Numerical Analysis I		
In Depth Requirement Courses		**12**	
Select two course sequences, or one group of three thematically linked courses, approved in conjunction with the academic committee			
Additional Courses		**9**	
"Additional Courses" are approved in conjunction with the academic committee to meet 30 total hours			
Total Hours		**30**	

Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master's (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor's and Master's degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master's degree in the same field within 12 months of completing the Bachelor's degree, or obtain a thesis-based Master's degree in the same field within 18 months of completing the Bachelor's degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

Faculty

Full Professors

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Brenda B. Williams

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H. Charlton

Ethelbert N. Chukwu

Lung-ock Chung

Joseph C. Dunn

Gary Doyle Faulkner

John E. Franke

Ronald O. Fulp

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Robert E. Hartwig

Aloysius G. Helminck

Robert H. Martin Jr.

Thomas J. Lada

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Joe A. Marlin

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