The Department of Mathematics offers programs leading to the degrees of Master of Science and Doctor of Philosophy in Mathematics and in Applied Mathematics. Students may opt for the Concentration in Computational Mathematics, which is attached to the program in applied mathematics. The Concentration in Interdisciplinary Mathematics (MAI) is available to Ph.D. students in either Mathematics or Applied Mathematics. It is not available to Masters Students. Joint research endeavors with industrial and governmental partners are facilitated and encouraged. The Department of Mathematics also offers a Certificate.

**Admissions Requirements**

Applicants for admission should have an undergraduate or Master’s degree in mathematics or applied mathematics. This should include courses in advanced calculus, analysis, modern algebra and linear algebra. Applicants with degrees in other subjects may be admitted but may be required to take certain undergraduate courses in mathematics without receiving graduate credit. GRE general scores are required. The GRE Subject Test in Mathematics is not required but a good score can be a positive factor in admission.

**Master of Science Requirements**

The M.S. degree requires a minimum of 30 credit hours with courses chosen to satisfy certain requirements to cover material from three different areas in the department, and some level of depth of material.

**Ph.D. Requirements**

The Ph.D. requires a minimum of 72 credit hours. A student will typically take 50-60 semester hours of course credits for the Ph.D. The written preliminary examination consists of examinations in three areas of mathematics chosen by the student from 12 possibilities. The research dissertation should represent a substantial contribution to an area of mathematics or its applications.

**Student Financial Support**

Teaching assistantships and some research assistantships are available. Teaching assistants benefit from a structured program of training in university-level teaching.

**Degrees**

- Mathematics (MS) ([catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-ms/](http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-ms/))
- Mathematics (PhD) ([catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-phd/](http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-phd/))
- Mathematics (PhD): Interdisciplinary Mathematics Concentration ([catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-phd-interdisciplinary-mathematics-concentration/](http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-phd-interdisciplinary-mathematics-concentration/))
- Mathematics (Minor) ([catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-minor/](http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-minor/))
- Mathematics (Certificate) ([catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-certificate/](http://catalog.ncsu.edu/graduate/sciences/mathematics/mathematics-certificate/))

**Faculty**

**Full Professors**

- Bojko Nentchev Bakalov
- Alina Emil Chertock
- Moody Ten-Chao Chu
- Jo-Ann D. Cohen
- Patrick Louis Combettes
- Pierre Alain Gremaud
- Mansoor Abbas Haider
- Hoon Hong
- Ilse Ipsen
- Kazufumi Ito
- Naihuan Jing
- Erich L. Kaltofen
- Carl Timothy Kelley
- Arkady Kheyfets
- Irina Aleksandrovna Kogan
- Zhilin Li
- Xiao-Biao Lin
- Alun L. Lloyd
- Sharon R. Lubkin
- Negash G. Medhin
- Kailash Chandra Misra
- Mette Olufsen
- Tao Pang
- Nathan P. Reading
- Jesus Rodriguez
- Michael Shearer
- Jack William Silverstein
- Ralph Conover Smith
- Ernest Lester Stitzinger
- Seth M. Sullivant
- Agnes Szanto
- Hien Trong Tran
- Semyon Victor Tsynkov
Dmitry Valerievich Zenkov

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Min Jeong Kang
Ricky Ini Liu
Arvind Krishna Saibaba
David Papp
Cynthia Leslie Vinzant

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Alen Alexanderian
Mohammad Mehdi Farazmand
Kevin Bryant Flores
P. Ivanisvili
C. Jones
Yerkin Kitapbayev
Tye Lidman
P. McGrath
Ryan William Murray
Tien Khai Nguyen
A. Papanicolaou
T. Saksala
Radmila Sazdanovic

Practice/Research/Teaching Professors
Elisabeth M. M. Brown
L. Castle
Alina Nicoleta Duca
Molly A. Fenn
Bevin Laurel Maultsby
S. Paul
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Emeritus Faculty
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Stephen LaVern Campbell
Richard E. Chandler
H. Charlton
Ethelbert N. Chukwu
Lung-ock Chung
Joseph C. Dunn
Gary Doyle Faulkner
John E. Franke
Ronald O. Fulp
Dennis E. Garoutte
Robert E. Hartwig
Aloysius G. Helminck
Robert H. Martin Jr.
Thomas J. Lada
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E. Peterson
Mohan Sastri Putcha
N. Rose
Stephen Schecter
Jeffrey Scott Scroggs
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Jonathan David Hauenstein
Patricia L. Hersh
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Jordan E. Massad
Jessica Loock Matthews
J. Ottesen