

DEPARTMENT OF MATHEMATICS

Introduction

Mathematics has always been a fundamental component of human thought and culture, and the growth of technology in recent times has further increased its importance. UNC–Chapel Hill offers several degrees in mathematics and the mathematical sciences, providing students a choice of careers in this field. Among the jobs in industry, government, and the academic world that involve mathematics are actuary, data analyst, modeler, optimizer, statistician, and computer analyst.

The UNC Baccalaureate Education in Science and Teaching (UNC–BEST) Program is a collaboration between the School of Education and the College of Arts and Sciences and is designed to allow undergraduate mathematics (and science) majors interested in teaching middle and high school mathematics the opportunity to earn their degree and obtain licensure as a North Carolina middle and high school teacher in four years. For more details, visit the School of Education website (<https://ed.unc.edu/academics/programs/unc-baccalaureate-education-in-science-and-teaching/>).

Advising

All majors and minors have a primary academic advisor assigned in ConnectCarolina. Students should regularly meet with their advisors and review their Tar Heel Trackers to be sure that they are satisfying distribution and degree requirements. In addition, drop in advising is available each semester in the math department. Students who have declared a math major and have completed MATH 233 are required to attend a math department advising session to discuss course selections and any other questions before a hold on registration is lifted. The department's director of undergraduate studies and manager of student services (see contact tab above) are also available by appointment. Further information on courses, undergraduate research opportunities, the honors program, careers, and graduate schools may be obtained from the department's website (<https://math.unc.edu/>).

Placement into Mathematics Courses

Standardized test scores such as the Advanced Placement (AP) or the American College Test (ACT) or Scholastic Aptitude Test (SAT) can be used for placement into mathematics courses. Students who do not have placement scores via the AP, ACT or SAT may take the department's ALEKS Placement Test. Please visit the placement page (<https://math.unc.edu/undergraduate/registration-advising/>) of the department's website for specific information regarding placement and departmental placement tests.

Graduate School and Career Opportunities

The B.S. degree program, especially if it includes the sequences MATH 521–MATH 522 and MATH 577–MATH 578, is excellent preparation for graduate study in the mathematical sciences. The B.A. degree can be excellent preparation for graduate study in many fields, including admission into professional schools of law, business, and medicine. Both degrees are viewed by many employers as attractive, especially when accompanied by electives in areas such as statistics, computer science, data science, economics, and operations research. Undergraduate mathematics majors with critical thinking skills and

good analytical abilities are in demand in many business, industry, and government fields.

Majors

- Mathematics Major, B.A. (<https://catalog.unc.edu/undergraduate/programs-study/mathematics-major-ba/>)
- Mathematics Major, B.S. (<https://catalog.unc.edu/undergraduate/programs-study/mathematics-major-bs/>)

Minor

- Mathematics Minor (<https://catalog.unc.edu/undergraduate/programs-study/mathematics-minor/>)

Graduate Programs

- M.A. in Mathematics (<https://catalog.unc.edu/graduate/schools-departments/mathematics/>)
- M.S. in Mathematics (<https://catalog.unc.edu/graduate/schools-departments/mathematics/>)
- Ph.D. in Mathematics (<https://catalog.unc.edu/graduate/schools-departments/mathematics/>)

Courses

- Mathematics (MATH) (<https://catalog.unc.edu/courses/math/>)

Professors

David Adalsteinsson, Idris Assani, Prakash Belkale, Roberto Camassa, Yaiza Canzani, Ivan V. Cherednik, Hans Christianson, M. Gregory Forest, Karin Leiderman Gregg, Boyce Griffith, Jingfang Huang, Shrawan Kumar, Jeremy Marzuola, Richard McLaughlin, Jason Metcalfe, Sorin Mitran, Richárd Rimányi, Lev Rozansky, Justin Sawon, Alexander N. Varchenko, Mark Williams.

Associate Professors

Olivia Dumitrescu, Jiuzu Hong, Yifei Lou, Katherine Newhall, David Rose, Andrey Smirnov.

Assistant Professors

Arunima Bhattacharya, Shahar Kovalsky, Caroline Moosmueller, Casey Rodriguez, Pedro Sáenz, Philip Tosteson, Daping Weng.

Teaching Faculty

Emily Burkhead, Joseph Compton, Mark McCombs, Elizabeth McLaughlin, Miranda Thomas.

Professors Emeriti

Joseph A. Cima, Patrick B. Eberlein, Ladnor D. Geissinger, Sue E. Goodman, Jane M. Hawkins, Christopher Jones, Ansel Mewborn, Karl E. Peterson, Joseph F. Plante, Robert Proctor, Michael Schlessinger, William W. Smith, James D. Stasheff, Michael E. Taylor, Jonathan M. Wahl, Warren R. Wogen.

Contact Information

Department of Mathematics

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Chair

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