

ROWAN UNIVERSITY
COLLEGE OF LIBERAL ARTS
& SCIENCES

M.A.
Mathematics

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The Master of Arts in Mathematics program will provide an opportunity for individuals to pursue advanced study in mathematics and to develop skills that can lead to success in today's technologically oriented society. Whether the goal involves applying mathematics to solve problems in business and industry, teaching in higher education, or preparing for further graduate study in mathematics or related fields, this program enables each student to pursue a course of study that is appropriate for his or her interests. The program has been of special interest to high school teachers seeking to enrich their knowledge of mathematics. The graduate course work will fill gaps and broaden and extend the undergraduate mathematics background of each student. There is sufficient flexibility in the program for students to tailor the curriculum to meet their needs.

ADDITIONAL ADMISSION REQUIREMENTS

In addition to the basic requirements for graduate admissions, the applicant for the Master of Arts in Mathematics will usually be expected to have completed a minimum of 30 semester hours of mathematics at the undergraduate level, including courses in calculus through vector calculus, linear algebra, and abstract algebra.

GRADUATION REQUIREMENTS

In addition to the course requirements outlined below, students will pass a comprehensive examination given by the Department of Mathematics.

COURSE REQUIREMENTS

Students will complete a minimum of 30 semester hours of graduate credits in mathematics. Twelve semester hours will provide a core experience for all graduate students, including two courses in analysis, an advanced course in linear algebra, and a choice of topology or a course in the foundations of mathematics.

Students will also complete 6-9 s.h. from Bank A, 6-9 s.h. from Bank B, and a minimum of 3 s.h. in Seminar and Research. Students should enroll in the required core courses first. The Mathematics Seminar is required and should be taken after most of the course work is completed. The comprehensive exam is usually taken during the Mathematics Seminar.

I. Required Core.....12 S.H.

- 1701.502 Linear Algebra
- 1701.510 Real Analysis I
- 1701.512 Complex Analysis I
- 1701.526 Topology
- or-
- 1701.500 Foundations of Mathematics

II. Bank A.....6-9 S.H.

- 1701.505 Probability & Statistics
- 1701.511 Real Analysis II
- 1701.513 Complex Analysis II
- 1701.524 Abstract Algebra I

III. Bank B.....6-9 S.H.

- 1701.503 Number Theory
- 1701.504 Mathematical Logic
- 1701.507 Differential Geometry
- 1703.511 Operations Research I
- 1703.512 Operations Research II
- 1701.520 Topics-Applied Mathematics
- 1701.521 Non-Linear Differential Equations
- 1701.522 History of Mathematics
- 1701.525 Modern Geometry
- 1701.527 Abstract Algebra II
- 1701.529 Numerical Analysis
- 1703.550 Topics-Discrete Mathematics

IV. Seminar and Research.....3-6 S.H.

- 1701.533 Mathematics Seminar (required)
- 1701.550 Independent Study

TOTAL.....30-33 S.H.

FOR ADMISSIONS INFORMATION AND/OR APPLICATION FORM CONTACT:

The Graduate School
Memorial Hall, Rowan University
Glassboro, NJ 08028-1701
(856) 256-4050
www.rowan.edu/elian/graduate/