

# MASTER OF ARTS IN MATHEMATICS

## PROGRAM OF STUDY:

The Department of Mathematics at the University of Northern Iowa offers graduate study leading to the Master of Arts in Mathematics.

The Master's program is flexible and is designed to offer students an opportunity to broaden their mathematical knowledge in preparing for positions in industry or for a Ph.D.-level program in mathematics. Master's students must complete a minimum of 30 hours of course work in various fields of mathematics, including a core of Analysis, Algebra and Geometry/Topology course. Students following the non-thesis plan are expected to complete a research/scholarly paper and pass a set of comprehensive exams. Students following the thesis plan are expected to complete a research thesis. The program normally takes two years to complete.

## APPLICATION:

Application forms for admission and financial support, as well as additional information about the department and its programs, can be obtained from the address on the back panel. Applicants whose native language is not English must have a current TOEFL score of at least 500 for admission and a score of at least 500 to be eligible for an assistantship. All application materials for stipends or scholarships must be received by March 1. Awards for stipends or scholarships for the following academic year are made in early April.

## INFORMATION:

### INFORMATION:

Dr. Michael Prophet  
Graduate Coordinator  
Phone: (319) 273-2104

### DEPARTMENT OF MATHEMATICS

Fax: (319) 273-2546  
University of Northern Iowa  
E-mail: [prophet@math.uni.edu](mailto:prophet@math.uni.edu)  
Wright Hall 320  
Cedar Falls, IA 50614-0506



# MASTER OF ARTS IN MATHEMATICS

University of Northern Iowa

## REQUIREMENTS FOR MA IN MATHEMATICS DEGREE

### NON-THESIS OPTION:

#### A. Completing the following coursework (with a cumulative grade index of 3.00):

1. Completion of MATH 5421 (800:141) and MATH 5501 (800:162): Students whose undergraduate program does not show completion of these courses or their equivalents will be expected to take these courses as part of their MA program. At most, one of these courses taken to fulfill this requirement can be applied to the elective courses listed below.

Courses taken to satisfy BA requirements may not also be counted among 2 and 3 below.

2. Required (20 hours): MATH 5630 (800:155) or MATH 5615 (800:189), MATH 6420 (800:201), MATH 6460 (800:203), MATH 6500 (800:240), and MATH 6299 (800:299)-3 hours.

At least two of the following: MATH 6421 (800:202), MATH 6461 (800:204), MATH 6501 (800:241).

3. Electives (12 hours): Any of the courses listed in 2 above that were not used for the requirements there, or from among the following:

MATH 5421 (800:141) MATH 5641 (800:167)  
MATH 6779 (800:273) MATH 5425 (800:149)  
MATH 5752 (800:152) ACT SCI 5739 (800:158)  
MATH 5430 (800:150) MATH 5754 (800:154) STAT  
5775 (800:174) MATH 5440 (800:176) MATH 6510  
(800:210) STAT 5776 (800:175) MATH 5501 (800:162)  
MATH 6640 (800:246) STAT 5777 (800:157) MATH  
5640 (800:180) MATH 6650 (800:269) STAT 5779  
(800:196)

Total Hours: 32-35 hours

#### B. Completing a Research/Scholarly Paper

#### C. Passing a Comprehensive Examination

### THESIS OPTION:

Students pursuing the thesis option will complete requirement A indicated above, with the exception that 6 hours must be taken under MATH 6299 (800:299)-Research. In place of requirements B and C, students will complete and defend a master's level thesis.

### RESEARCH FACILITIES:

The Department of Mathematics is housed in Wright Hall, a building that features a comfortable working environment along with several computer labs. Students have access to computers that are equipped with such mathematical software as the computer algebra systems Maple and Mathematica, and the Statistics Software S-Plus.

The university library, conveniently located adjacent to the Mathematics building, has a collection of over 700,000 books and more than 3,000 current periodicals and newspaper subscriptions. The holdings of the UNI library, as well as other libraries in the state, are accessible via the computer network.

The University of Northern Iowa, as well as the entire state of Iowa, has access to a fiber-optics network to transmit coursework and to conduct conferences.

### FINANCIAL AID, COST OF STUDY, AND

### COST OF LIVING:

For information on these areas, see the Graduate College website at:  
[www.grad.uni.edu/information/](http://www.grad.uni.edu/information/)

### LOCATION:

The Cedar Falls/Waterloo metropolitan area has a population of about 150,000 and offers a wide variety of cultural, educational, and recreational opportunities. Cedar Falls is located 268 miles west of Chicago, 200 miles south of Minneapolis, and 108 miles northeast of Des Moines. Cedar Falls is accessible from the south via Interstate 380.

### THE UNIVERSITY AND THE DEPARTMENT:

The University of Northern Iowa was established in 1876 and was granted university status in 1967. It currently supports fifty-two master's degree programs and the Doctor of Education degree and the Doctor of Technology degree. The Department of Mathematics has been offering a master's degree for more than thirty years.

