## MATHEMATICS, MS

This program is designed to provide students with the opportunity to broaden and deepen their knowledge of core areas of mathematics. The course work is designed to provide both breadth of knowledge and depth in an area of interest to the student. This experience will prepare the student for further studies leading to a Ph.D. degree in mathematics. Partial tuition waivers may be available to qualified students.
Requirements
Non-Thesis Option


## Additional Requirements

A four-hour written examination to be taken upon completion of the course work, with topics drawn from basic material in algebra, topology and analysis taught in the first-year graduate courses. The student is given two chances to pass this exam. One of the Ph.D. Qualifying examinations may be substituted for the Masters exam.

## Thesis Option

| Course ID | Title |  |
| :--- | :--- | :--- |
| Required Courses |  |  |
| MATH 7210 | Analysis I |  |
| \& MATH 7220 | and Analysis II |  |
| Select 1 of the following: |  | 6 |
| MATH 7010 | Topology I |  |
| \& MATH 7020 | and Topology II |  |
| MATH 7110 | Algebra I |  |
| \& MATH 7120 | and Algebra II |  |
| Optional Courses |  | 12 |
| Select four additional courses from the optional list ${ }^{1}$ | $\mathbf{2 4}$ |  |
| Total Credit Hours |  |  |

1 Other courses not listed may be substituted with the approval of the Graduate Studies Committee. Up to six credits may be transferred from other departments or institutions with the approval of the Graduate Studies Committee.

## Additional Requirements

A thesis approved by the thesis committee consisting of a faculty member acting as advisor and two additional faculty. The thesis is typically much more substantial than the MATH 7980 Reading and Research (1-9 c.h.) project.

| Course ID | Title | Credits |
| :--- | :--- | ---: |
| MATH 6030 | Stochastic Processes | 3 |
| MATH 6210 | Differential Geometry | 3 |
| MATH 6300 | Complex Analysis I | 3 |
| MATH 7240 | Mathematical Statistics | 3 |
| MATH 7510 | Differential Geometry I | 6 |
| \& MATH 7520 | and Differential Geometry II | 6 |
| MATH 7530 | Partial Diff Equations I | 6 |
| \& MATH 7540 | and Partial Diff Equitn II | 3 |
| MATH 7550 | Probability Theory II | 3 |
| Special Topics Courses ${ }^{1}$ |  |  |

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[^0]:    1 MATH 7710 Topics In Algebra (3 c.h.) - MATH 7790 Topics In Topology (3 c.h.)

