# MASTER OF SCIENCE DEGREE IN MATHEMATICS

Master of Science (M.S.) Degree in Mathematics. This program is designed to meet the educational needs of persons aspiring to professional advancement in the teaching of Mathematics or in other professions requiring advanced degrees in the discipline, as well as those students preparing for advanced study at the Ph.D. level.

| Code | Title | Hours |
|---|---|---|
| **Core Courses of Study** | | |
| MA 630 | Foundations of Advanced Mathematics (*) | 3 |
| MA 637 | Group Theory | 3 |
| MA 638 | Rings and Fields | 3 |
| MA 651 | Advanced Calculus I | 3 |
| MA 652 | Advanced Calculus II | 3 |
| MA 698 | Algebra Comprehensive Exam | 0 |
| MA 699 | Analysis Comprehensive Exam | 0 |
| *An additional 600 level mathematics elective which is not used to satisfy the Elective requirement below may be substituted for MA 630. This course substitution must be approved by the student's advisor, Graduate Coordinator, and Department Chair of Mathematics. | | |
| Students are required to pass two written, comprehensive examinations, one in algebra (which covers content from MA 637 and MA 638) and one in analysis (which covers content from MA 651 and MA 652). | | |
| **Electives** | | **15** |
| Students must take an additional 15 semester hours of elective coursework. | | |
| At least 9 hours of elective coursework must come from mathematics courses above the level of MA 630. | | |
| The remaining 6 hours may come from additional graduate level coursework in mathematics or (with approval from the Graduate Coordinator and Department Chair of Mathematics) approved coursework from areas outside of mathematics. | | |
| **Total Hours** | | **30** |

## Admission

In addition to the general requirements for admission to graduate studies (See General Regulations and Procedures), admission to the Master of Science degree program in Mathematics also requires:

1. Preparation: Applicants must hold a bachelor's degree from an accredited institution and have at least 21 semester hours in Mathematics at the level of calculus or higher. A Graduate Admissions Committee will review each application; consequently, **all applications and supporting documents must be submitted to the Office of Graduate Admissions in accordance with submission deadlines established by that office.**
2. Scholastic Achievement: A minimum of 2.75 GPA on a 4.0 scale in all previous undergraduate and graduate coursework, and a minimum 3.0 GPA in all previous undergraduate (and, if applicable, graduate) mathematics courses.
3. Test Scores: Submission of scores on the Graduate Record Exam (GRE) General Test including Verbal Reasoning, Quantitative Reasoning, and Analytical Writing sections. Minimum acceptable scores are as follows:
   a. A score of at least 150 on the Quantitative Reasoning section, and
   b. a score of at least 145 on the Verbal Reasoning section OR a score of at least 3.5 on the Analytical Writing section.
4. References: Applicants must submit a list of three references from academic or professional sources.

### TRANSFER ADMISSION

In addition to the general requirements for Transfer Admission to Graduate Studies (See General Regulations and Procedures), up to 6 semester hours of graduate credit by transfer may be accepted with the approval of the Graduate Coordinator and Department Chair of Mathematics. Exceptions must be approved by the Graduate Coordinator, Department Chair of Mathematics, and college dean.