

## B.S. in Mathematics

**69 MATH Credits; 180 Total Credits Required for Graduation**

This information is to be used for planning. Check your Degree Audit Reporting System (DARS) or meet with an advisor to ensure you have met all degree requirements.

*Minimum admissions requirements:* MATH 124, MATH 125, MATH 126, MATH 300 (or MATH 134, MATH 135, MATH 136), with a minimum 2.0 grade in each of these courses and an overall minimum 2.50 GPA in all mathematics courses. Completion of these requirements does not guarantee admission.

### Calculus Sequence (15 credits)

- MATH 124 (5cr) – Calculus I
- MATH 125 (5cr) – Calculus II
- MATH 126 (5cr) – Calculus III

### Core Requirements (18 credits)

- MATH 207 (3cr) – Differential Equations
- MATH 208 (3cr) – Matrix Algebra
- MATH 224 (3cr) – Advanced Multivariable
- MATH 300 (3cr) – Mathematical Reasoning
- MATH 327 (3cr) – Intro Real Analysis
- MATH 424 (3cr) – Concepts of Analysis

<sup>1</sup>**Sequence recommendations:** Items “1” and “2” are generally expected for graduate study in mathematics. Items “3” and “4” are recommended for PhD programs in pure mathematics. Alternative combinations may be preferred for graduate study in other areas of the mathematical sciences and for industry careers.

### Advanced Mathematics and Electives (36 credits)

- 2 three-quarter sequences  
OR
- 3 two-quarter sequences

*Total of 6 courses; 5 courses if completing Concepts of Analysis.*

**Complete at least 1 sequence from items 1-4.<sup>1</sup>**

- 1. Modern Algebra – 402 / 403 / 404**
- 2. Concepts of Analysis – 425 / 426**
- 3. Topology & Geometry – 441 / 442 / 443**
- 4. Complex Analysis – 427 / 428**
5. Optimization – 407 / 408 / 409
6. Combinatorics – 461 / 462
7. Numerical Analysis – 464 / 465
8. Probability – 491 / 492 or 493

- Mathematical Electives<sup>2</sup>

6-7 MATH courses at the 300- or 400-level. *Up to 2 electives can be taken in one other department with advisor approval.*

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**<sup>2</sup>MATH course restrictions:**

- Excluding MATH 398, 399, 411, 412, 444, 445, 497, 498, 499.
- No more than two special topic MATH courses numbered 380 or 480.

