Mathematics Bachelor of Arts (BA)

At least 124 hours are required for graduation, and students must earn a 2.0 overall GPA, a 2.0 WSU GPA, and a 2.0 GPA in the major. Students must also complete all courses required for Liberal Arts and Sciences General Education. In addition, Foreign Language courses (or the equivalents) are required for every BA degree in the College of Liberal Arts and Sciences. French, German, or Russian is also recommended for students contemplating graduate work in mathematics.

**REQUIREMENTS FOR MAJOR: 27 hours including:**

**Core courses** taken by all Math Majors: 15 hours
- 415 Introduction to Advanced Mathematics (3)
- 511 Linear Algebra (3)
- 547 Advanced Calculus I (3)
- 551 Numerical Methods (3)
- 555 Differential Equations I (3)

**Plus:**
- 531 Introduction to the History of Mathematics (3)

**Two Courses from** Group A or Group B or Group C: 6 hours

**Group A**
- 513 Fundamental Concepts of Algebra (3)
- 525 Elementary Topology (3)
- 615 Elementary Number Theory (3)

**Group B**
- 460 Elementary Probability & Mathematical Statistics (3)
- 571 Statistical Methods I (3)
- 572 Statistical Methods II (3)
- 574 Elementary Survey Sampling (3)
- 576 Applied Nonparametric Statistical Methods (3)

**Group C**
- 530 Applied Combinatorics (3)
- 545 Integration Techniques & Applications (3)
- 548 Intro to Complex Variables (3)
- 553 Mathematical Models (3)
- 640 Applied Calculus II (3)*

*recommended for students contemplating graduate work

**Plus a higher-level algorithmic computer language: 3 hours**

Math 451 Computational Math using MATLAB (3) is strongly recommended

**REQUIREMENTS FOR A MINOR: 16 hours**, a grade of D will not count in the minor

- 242 Calculus I (5)
- 243 Calculus II (5)
- 344 Calculus III (3)

400-level or above: __________________________ (3) Must be approved by Math advisor

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