At least 120 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: 24 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) recommended for students contemplating graduate work
- 525 Elementary Topology (3)
- 615 Elementary Number Theory (3)
- 621 Elementary Geometry (3)
- 720 Modern Geometry (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)
- 763 Applied Regression Analysis (3)
- 771 Theory of Statistics I (3)
- 775 Applied Statistical Methods I (3)
- 776 Applied Statistical Methods II (3)

**Group C**
- 530 Applied Combinatorics (3)
- 545 Integration Techniques & Applications (3)
- 548 Intro to Complex Variables (3)
- 553 Mathematical Models (3)
- 640 Advanced Calculus II (3)* recommended for students contemplating graduate work
- 655 Differential Equations II (3)
- 657 Optimization Theory (3)
- 751 Numerical Linear Algebra (3)
- 753 Ordinary Differential Equations (3)
- 755 Partial Differential Equations I (3)

*recommended for students contemplating graduate work

All bachelor's degrees in mathematics require a higher-level algorithmic computer language.

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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