**Mathematics Bachelor of Science (BS)**

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. French, German, or Russian is also recommended for students contemplating graduate work in mathematics.

**REQUIREMENTS FOR MAJOR:** 33 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)

**One Course** from Group A: **3 hours**
- 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)

**One course** from Group B-Statistics: **3 hours**
- 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)
- 621 Elementary Geometry (3)
- 720 Modern Geometry (3)
- 763 Applied Regression Analysis (3)
- 771 Theory of Statistics I (3)
- 772 Theory of Statistics II (3)
- 775 Applied Statistic Methods I (3)
- 776 Applied Statistic Methods II (3)

**One course** from Group C – Applied Math: **3 hours**
- 530 Applied Combinatories (3)
- 545 Integration Techniques & Applications (3)
- 548 Intro to Complex Variables (3)
- 553 Mathematical Models (3)
- 640 Applied Calculus II (3)*
- 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

**An additional two courses** chosen from Group B and/or Group C: **6 hours**

______ ____________________ (3)   ______ ____________________ (3)

**One additional recommended course**: **3 hours**
- Math 451 Computational Math using MATLAB (3)

**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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