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

**Requirements for Major:** 30 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)

**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)

**One Course** from Group C – Applied Math: 3 hours
- 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

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

- ____________________ (3) ____________________ (3)

All bachelor’s degrees in mathematics require a higher-level algorithmic computer language. Math 451 Computational Math using MATLAB (3) is strongly recommended.

**For students contemplating Graduate School**, MATH 513, MATH 547 and MATH 640 are highly recommended along with one or more of French, German or Russian.

**Applied Learning**: Students in the BS in mathematics program are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by completing one of the following: 1) The student completes a thesis; 2) The student attends a conference and presents at least a poster; 3) The student performs outreach in the local school district; 4) The student does a presentation in a venue involving members of the community such as the Science Expo at the Keeper of the Plains, or through participation in Math Circle, or Pi Mu Epsilon, or Math Awareness; 5) The student carries out a research project followed by a seminar presentation.

**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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