Mathematics Bachelor of Science (BS) A20A

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) 621 Elementary Geometry (3)
615 Elementary Number Theory (3) 720 Modern Geometry (3)

One course from Group B-Statistics: 3 hours
460 Elementary Probability & Mathematical Statistics (3) 763 Applied Regression Analysis (3)
571 Statistical Methods I (3) 771 Theory of Statistics I (3)
572 Statistical Methods II (3) 772 Theory of Statistics II (3)
574 Elementary Survey Sampling (3) 775 Applied Statistic Methods I (3)
576 Applied Nonparametric Statistical Methods (3) 776 Applied Statistic Methods II (3)

One course from Group C—Applied Math: 3 hours
530 Applied Combinatories (3) 655 Differential Equations II (3)
545 Integration Techniques & Applications (3) 657 Optimization Theory (3)
548 Intro to Complex Variables (3) 751 Numerical Linear Algebra (3)
553 Mathematical Models (3) 753 Ordinary Differential Equations (3)
640 Advanced Calculus II (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

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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.

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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