Mathematics with emphasis in Statistics 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 or statistics.

REQUIREMENTS FOR MAJOR: 33 hours in Math courses, 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 twelve hours from Group B which must include:
571 Statistical Methods I (3) and 572 Statistical Methods II (3)
or
771 Theory of Statistics I (3) and 772 Theory of Statistics II (3)

The remaining 6 hours in Group B chosen from:
460 Elementary Probability & Mathematical Stats (3)
574 Elementary Survey Sampling (3)
576 Applied Nonparametric Statistical Methods (3)

One Course from Group C: 3 hours
530 Applied Combinatorics (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)

One additional course chosen from group B or group C above: 3 hours

Plus a higher-level algorithmic computer language: 3 hours
Math 451 Computational Math using MATLAB (3) is strongly recommended or an additional higher level programming language course

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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