Mathematics with emphasis in Statistics  Bachelor of Science  (BS)  A20C

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 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)
- 640 Applied Calculus II (3)*
- 657 Optimization Theory (3)
- 545 Integration Techniques & Applications (3)
- 753 Ordinary Differential Equations I (3)
- 548 Intro to Complex Variables (3)
- 714 Applied Mathematics (3)
- 553 Mathematical Models (3)
- 751 Numerical Linear Algebra (3)
- 763 Applied Regression Analysis (3)
- 775 Applied Statistic Methods I (3)
- 776 Applied Statistic Methods II (3)

One Course from Group C: 3 hours
- 530 Applied Combinatories (3)
- 548 Intro to Complex Variables (3)
- 553 Mathematical Models (3)
- 640 Applied Calculus II (3)*
- 530 Optimization Theory (3)

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

All bachelor's degrees in mathematics require a higher-level algorithmic computer language.
Math 451 Computational Math using MATLAB (3) is strongly recommended. Students under this option may select statistics courses from other departments with the approval of the department of Mathematics, statistics and Physics.

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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