

Bachelor of Science Degree (BS) in Mathematics Emphasis in Statistics

Group RRequired Courses

M415 - An Introduction to Advanced Math	3 hrs
M511 - Linear Algebra	3 hrs
M547 - Advanced Calculus I	3 hrs
M551 - Numerical Methods	3 hrs
_____ M555 - Differential Equations I	3 hrs

Plus select one of the following sequence:

either	_____ S571 - Statistical Methods I and _____ S572 - Statistical Methods II	6 hrs
or	_____ S771 - Theory of Statistics I and _____ S772 - Theory of Statistics II	6 hrs

Plus Twelve (12) Additional Hours from Group B which must include :

Group B

_____ S460 - Elementary Probability and Mathematical Statistics	3 hrs
_____ S571 - Statistical Methods I	3 hrs
_____ S572 - Statistical Methods II	3 hrs
_____ S574 - Elementary Survey Sampling	3 hrs
_____ S576 - Applied Nonparametric Statistical Models	3 hrs
_____ S761 - Probability	3 hrs
_____ S762 - Applied Stochastic Processes	3 hrs
_____ S763 - Applied Regression Analysis	3 hrs
_____ S764 - Analysis of Variance	3 hrs
_____ S771 - Theory of Statistics I	3 hrs
_____ S772 - Theory of Statistics II	3 hrs
_____ S775 - Applied Statistical Method I	3 hrs
_____ S776 - Applied Statistical Methods II	3 hrs

Group C One Course from Group C

_____ M530 - Applied Combinatorics	3 hrs
_____ M545 - Integration Techniques and Applications	3 hrs
_____ M548 - Intro to Complex Variables	3 hrs
_____ M553 - Mathematical Models	3 hrs
_____ M640 - Advanced Calculus II	3 hrs
_____ M655 - Differential Equations II	3 hrs
_____ M657 - Optimization Theory	3 hrs
_____ M714 - Applied Mathematics	3 hrs
_____ M751 - Numerical Analysis	3 hrs
_____ M753 - Ordinary Differential Equations	3 hrs
_____ M755 - Partial Differential Equations	3 hrs

Plus One (1) More Course from Group B or C:

Plus a high-level algorithmic computer language. The MATLAB course, Math 451 is strongly recommended.

Note:

Students under this option may select statistics courses from other departments with the due approval of the Department of Mathematics and Statistics.

For students who are contemplating graduate work it is highly recommended that they include Math 513 and 640 in their program, along with courses in one or more of French, German, or Russian.

Minimum G.P.A. for this degree is 2.0