

Group R Required 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

Group A One Course from Group A

___	M513 - Fundamental Concepts of Algebra	3 hrs
___	M525 - Elementary Topology	3 hrs
___	M615 - Elementary Number Theory	3 hrs
___	M621 - Elementary Geometry	3 hrs
___	M690 - Introduction to Mathematical Logic	3 hrs
___	M720 - Modern Geometry	3 hrs

Group B One Course from 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 Two Additional Courses from Groups B and/or C:

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

Note:

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