Wichita State University
Fairmount College of Liberal Arts & Sciences

Bachelor of Arts Degree (BA) in Mathematics

Mathematics & Statistics
355 Jabara Hall, Wichita, KS 67260-0033; (316)978-3160

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
Plus: ____	M531 - Introduction to the History of Mathematics	3 hrs

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 . . . . .

____	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 . . . . .

____	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 A, B and/or C:

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

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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

7/13/11