



MATHEMATICS

PURPOSE

The Master of Science - Mathematics is intended to provide a sound foundation for further graduate study at the doctoral level, for teaching at the secondary, junior college or college level, and for careers in industry, research and commerce.

PROGRAM REQUIREMENTS

The Master of Science degree candidate must complete ten Mathematics courses; at least three must be from Level II courses.

Course Offerings

Credits

Level I

MAT701	Vector and Tensor Analysis	3
MAT704	Linear Algebra	3
MAT705	Modern Plane Geometry	3
MAT706	Theory of Numbers	3
MAT707	Mathematical Statistics	3
MAT708	Introduction to Cryptography	3
MAT709	Complex Variables	3
MAT710	Foundations of Mathematics	3
MAT711	Real Analysis I	3
MAT713	Ordinary Differential Equations	3
MAT714	Algebraic Structures	3
MAT737	Operations Research	3
MAT740	Computer Applications in Mathematics I	3
MAT750	History of Mathematics	3

Level II

MAT712	Topology I	3
MAT715	Topics in Modern Geometry	3
MAT716	Analytic Number Theory	3
MAT721	Real Analysis II	3
MAT723	Numerical Analysis	3
MAT724	Abstract Algebra	3
MAT725	Fractal Geometry	3
MAT731	Measure and Integration	3
MAT734	Linear and Multilinear Algebra	3
MAT741	Computer Applications in Mathematics II	3
MAT747	Applied Statistical Inference	3
MAT801	Differential Geometry	3
MAT804	Advanced Topics in Algebra	3
MAT807	Statistical Inference	3
MAT809	Theory of Functions of a Complex Variable	3
MAT812	Topology II	3



MAT813	Partial Differential Equations and Fourier Series	3
MAT816	Algebraic Number Theory	3
MAT821	Functional Analysis	3
MAT822	Introduction to Algebraic Topology	3
MAT831	Manifolds and Differential Forms	3
MAT930	Seminar: Independent Study	3

Total Credits **30**