

Doctor of Philosophy (PhD) in Mathematics

YEAR ONE

Course Code	PhD: First Semester Courses Year 1	Credit
MTH 901	Linear Algebra	2
MTH 902	Data Analysis	3
MTH 903	Geometry	3
MTH 904	Advanced Probability	2
MTH 905	Software Metrics	2
MTH 906	Combinatorics	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 1	Credit
MTH 911	Advanced Abstract Algebra	2
MTH 912	Real Analysis	3
MTH 913	Real Variables	3
MTH 914	Quantitative Analysis	2
MTH 915	Qualitative Analysis	2
MTH 916	Year One: Independent Research I	3
TOTAL CREDITS		15

YEAR TWO

Course Code	PhD: First Semester Courses Year 2	Credit
MTH 921	Topology	2
MTH 922	Differential Equations	3
MTH 923	Functional Analysis	3
MTH 924	Analytical Mechanics	2
MTH 925	Calculus of Variations	2
MTH 926	Number Theory	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 2	Credit
MTH 1001	Partial Differential Equations	2
MTH 1002	Matrix Algebra	3
MTH 1003	Modern Algebra	3
MTH 1004	Vector Analysis	2
MTH 1005	Numerical Methods	2
MTH 1006	Year Two: Independent Research II	3
TOTAL CREDITS		15



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YEAR THREE

Course Code	PhD: First Semester Courses Year 3	Credit
MTH 1011	Discrete Mathematics	2
MTH 1012	Statistics and Probability Theory	3
MTH 1013	Mathematics Finance	3
MTH 1014	Linear Programming	2
MTH 1015	Applied Mathematics	2
MTH 1016	Computational Mathematics	3
TOTAL CREDITS		15
Course Code	PhD: Second Semester Courses Year 3	Credit
MTH 1021	Computational Techniques	2
MTH 1022	Mathematical Statistics	3
MTH 1023	Optimization and Variational Methods	3
MTH 1024	Riemannian Geometry	2
MTH 1025	Year Three: PhD Research Thesis	5
TOTAL CREDITS		15

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