

COURSE NAME	COURSE NUMBER	ODD FALL	EVEN SPRING
CORE GRADUATE COURSES			
Algebra	M501/M502	M501(1)	M502(1)
Lie Algebras and Lie Groups	M507/M508	M507(1)	M508(1)
Real Variables	M511/M512	M511(1)	M512(1)
Complex Variables	M513/M514	M513(1)	M514(1)
Topology	M521/M522	M521(1)	M522(1)
Differential Topology	M529		M529(1)
Differential/Metric Geometry	M531/M533	M531(1)	M533(1)
Partial Differential Equations	M540/M541	M541(1)	M540(1)
Nonlinear Partial Differential Equations	M542		M542(1)
Ordinary Differential Equations I	M544	M544(1)	
Ordinary Differential Equations II	M545		infrequent
Analysis of Numerical Methods	M571	M571(1)	
Applied Stochastic Processes	M560	Offered once every three semesters, roughly	
Theory of Probability	M563/M564	M563(1)	M564(1)
Set Theory/Recursion Theory	M583/M584	Offered irregularly depending on resources	
HONORS COURSES (for majors)			
***The 400 level courses meet with M for a combined listing MS###			
Honors Calculus I	S211	S211(1)	
Honors Calculus II	S212	S212(1)	S212(1)
Honors Linear Algebra/Honors Calculus III	S303/S311	S303(1)	S311(1)
Honors Calculus IV	S312	S312(1)	
Honors Differential Equations	MS343/MS344	MS343(1)	MS344(0)
Honors Modern Algebra	MS403/MS404	MS403(1)	MS404(1)
Honors Analysis	MS413/MS414	MS413(1)	MS414(1)
Honors Complex Variables	MS415		MS415(1)
Honors Probability Theory	MS463	MS463(1)	
T-COURSES (for secondary teachers)			
Topics in Euclidean Geometry	T336	T336(1)	
400-LEVEL COURSES			
Modern Algebra	M403/M404	M403(2)	M404(1)
Linear Transformations	M409		M409(1)
Analysis	M413/M414	M413 (2)	M414(1)
Complex Analysis	M415		M415(2)
Differential Geometry*	M435		M435(1)
Introduction to Geometries	M436	M436(1)	
Partial Differential Equations	M441/M442	M441(1)	M442(1)
Mathematical Models and Applications	M447	M447(1)	
Adv UG Engr Math Methods	E449	E449(2)	
Mathematics of Finance	M451/551		M451/551(1)
Probability Theory I	M463	M463(2)	M463(1)
Probability Theory II	M464		M464(1)
Numerical Analysis	M471/M472	M471(1)	M472(1)
Mathematical Logic	M482	Offered irregularly depending on resources	
Putnam Exam Seminar	M491	M491(1)	

NON-CORE GRADUATE COURSES		ODD FALL	EVEN SPRING
Problem Solving	M500	resources lacking to support this innovation	
Advanced Engineering Methods for Luddy/SICE	E549		E549(1)
Mathematical Methods for Biology	M548	Taught by faculty in Physics	
Quantum Computing	M556	M556(1)	
Algebraic Number Theory	M601/602		
Group Representations	M607		
Functional Analysis	M611		
Algebraic Topology	M621/622		
Geometric Topology	M623/624	M623(1)	M624(1)
Algebraic Geometry	M630	Rarely offered	
Algebraic Varieties	M633/634	M633(1)	M634(1)
Theory of Gravitation	M637	Rarely offered	
Elliptic Differential Equations	A641	Rarely offered	
Evolution Equations	A642		A642(1)
Integral Equations	A643	Rarely offered	
Mathematical Physics	M647	Rarely offered	
Foundations of Quantum Mechanics	M655	Rarely offered	
Continuum Mechanics	M658	Sporadically offered	
Model Theory	M682	Sporadically offered	
Selected Topics in Algebra	M701/702	Sporadically offered	
Selected Topics in Analysis	M711/712	M711(1)	M712(1)
Selected Topics in Topology	M721/722	M721(1)	
Selected Topics in Differential Geometry	M731/732	M731(1)	M732(1)
Selected Topics in Applied Mathematics	M741/742	M741(1)	sporadic
Selected Topics in Mechanics	M751/752	Sporadically offered	
Selected Topics in Probability	M761/762	Sporadically offered	
Selected Topics in Mathematical Logic	M781/782	Sporadically offered	
Seminar in the Teaching of College Mathematics	M595/M596	M595(1)	M596(1)
Colloquium	M599	M599(1)	M599(1)

Offered every 3 years

Fourier Analysis	M518	Sporadically offered	
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Offered irregularly

Quantum Computing I	M555	Rarely offered	
Quantum Computing II	M556	Rarely offered	
Elliptic Differential Equations	A641	Rarely offered	
Evolution Equations	A642		A642/Temam
Integral Equations	A643	Rarely offered	
Foundations of Quantum Mechanics	M655	Rarely offered	

Offered every 3 years

Theory of Gravitation	M637	Rarely offered	
Mathematical Physics	M647	Rarely offered	

Not expected to run anytime soon

Problem Solving	M500	resources lacking to support this innovation	
Advanced Engineering Methods for Luddy/SICE	E549		E549(1)

300-LEVEL COURSES		ODD FALL	EVEN SPRING
Applied Linear Algebra	M301	M301(3)	M301(2)
Linear Algebra	M303	M303(2)	M303(3)
Calculus III	M311	M311(3)	M311(2)
Calculus IV	M312	M312(1)	M312(1)
Intuitive Topology	M321		M321(1)
Exploring Mathematical Ideas	M330	M330(1)	
Differential Equations I	M343	M343(2)	M343(2)
Differential Equations II	M344		M344(1)
Discrete Math Models	M348	unknown	unknown
Discrete Mathematics	M353		M353(1)
Probability and Statistics	M365	M365(2)	M365(2)
Elementary Computational Methods	M371		M371(1)
History of Mathematics	M380		M380(1)
Logic	M384		sporadic(1)
Mathematics from Language	M385	sporadic	
Introduction to Mathematical Reasoning	M391		M391(1)
200-LEVEL COURSES			
Calculus I	M211	M211(11)	M211(6)
Calculus II	M212	M212(4)	M212(5)
Mathematical Contest in Modeling Prep	M247	M247(?)	
Linear Algebra for Data Sci	E201		E201(2)
Intro to Probability-Data Science	E265	E265(2)	
100-LEVEL COURSES			
Mathematics of Decision and Beauty	M106	M106(4L/24Rec)	M106(5L/30Rec)
Mathematics for Business and Public Affairs	B110	B110(?)	B110(?)
Introduction to College Mathematics I	J111	J111(6)	J111(2)
Introduction to College Mathematics II	J112	J112(1)	J112(2)
Introduction to Calculus with Applications	J113	J113(1)	
Introduction to Finite Mathematics I	D116	D116(5)	D116(2)
Introduction to Finite Mathematics II	D117	D117(2)	D117(4)
Finite Mathematics	M118	M118(3L/1R)	M118(2L/1R)
Finite Mathematics Variations	V118	V118(2)	V118(2)
Brief Survey of Calculus I	M119	M119(3L/1R)	M119(2L/1R)
Online Brief Survey of Calculus I	O119	O119(1R)	O119(1R)
Brief Survey of Calculus II	M120	M120(1)	M120(2)
Applied Brief Calculus for the Life Sciences	V119	V119(2)	V119(1)
Precalculus Mathematics I	M125	M125(6)	M125(3)
Supplemental Instruction for M125 Precalculus	X125	X125(2)	X125(1)
Precalculus Mathematics II	M126		M126(1)
Precalculus with Trigonometry	M127	M127(4)	M127(0)
000-LEVEL COURSES			
Basic Algebra for Finite Mathematics	M18	M18(7+5)	M18(1+1)