

B.A. in Mathematics (Comprehensive)

Major Requirements (42-43 sh)

SUMMARY OF MAJOR REQUIREMENTS

- 24 sh of Foundational Courses
 - 9 sh of Mid-Level Courses for the Comprehensive Concentration
 - 9-10 sh of Comprehensive Concentration Restricted Electives
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- 42-43 sh total

FOUNDATIONAL COURSES

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
MATH 03150	Discrete Mathematics		Fall/1	>= C-	3
MATH 01130	Calculus I	Satisfies Quantitative Literacy	Fall/1	>= C-	4
MATH 01131	Calculus II		Spr/1	>= C-	4
MATH 01230	Calculus III		Fall/2	>= C-	4
MATH 01210	Linear Algebra		Fall/2	>= C-	3
MATH 01300	Mathematical Proof Writing		Spr/2	>= C-	3
MATH 01340	Modern Algebra I		Fall/3	>= C-	3
Subtotal: 24 sh					

MID-LEVEL COURSES FOR THE COMPREHENSIVE CONCENTRATION

Course #	Course Name	Course Designations / Notes	Sem/Yr	Grade	Credits
MATH 01231	Ordinary Differential Equations		Spr/2	>= C-	3
MATH 01330	Introduction to Real Analysis I		Spr/3	>= C-	3
MATH 01498	Mathematics Seminar	Satisfies WI requirement	Spr/4	>= C-	3
Subtotal: 9 sh					

COMPREHENSIVE CONCENTRATION RESTRICTED ELECTIVES

Choose Three of the following courses (take courses in Fall/3, Spring/3 and Fall/4).

Course #	Course Name	Course Attributes / Notes	Sem/Yr	Grade	Credits
<input type="radio"/> MATH 01310	College Geometry			>= C-	4
<input type="radio"/> MATH 01331	Introduction to Real Analysis II			>= C-	3
<input type="radio"/> MATH 01332	Introduction to Numerical Analysis			>= C-	3
<input type="radio"/> MATH 01341	Modern Algebra II			>= C-	3
<input type="radio"/> MATH 01352	Theory of Numbers			>= C-	3
<input type="radio"/> MATH 01354	Introduction to Topology			>= C-	3
<input type="radio"/> MATH 01386	Introduction to Partial Differential Equations			>= C-	3
<input type="radio"/> MATH 01400	Applications of Mathematics			>= C-	3
<input type="radio"/> MATH 01410	History of Mathematics			>= C-	3
<input type="radio"/> MATH 01411	Deterministic Models in Operations Research			>= C-	3
<input type="radio"/> MATH 01412	Stochastic Models in Operations Research			>= C-	3
<input type="radio"/> MATH 01421	Mathematics Field Experience			>= C-	3
<input type="radio"/> MATH 01430	Introduction to Complex Analysis			>= C-	3
<input type="radio"/> STAT 02360	Probability and Random Variables			>= C-	3
<input type="radio"/> STAT 02361	Mathematical Statistics			>= C-	3
<input type="radio"/> STAT 02371	Design of Experiments: Analysis of Variance			>= C-	3
Subtotal: 9-10 sh					

