

## Mathematics, B.S. Teaching Concentration 2024–25 Catalog

The example four-year plan is designed to provide a blueprint for students to complete their degrees within four years. These plans include recommended sequences of courses. Individual plans will vary based on previously earned credit, such as Dual Enrollment and AP credit, as well as the student's academic goals. Students will work with an academic advisor to develop a more individualized plan to complete their degree.

This example four-year plan is applicable to students admitted during the 2024–25 academic year.

Total Credits Required: 120 credits Required GPA for Graduation: 2.0 (institutional)

Courses requiring a C or better are denoted with an asterisk (\*). Courses only offered in Fall terms are denoted with a plus sign (+). Courses only offered in Spring terms are denoted with a double-plus sign (++). Legend is available on the last page of this document.

Year 1							
	Fall	Spring					
Course	Title	Hours	Area	Course	Title	Hours	Area
MATH 0001	First-Year Academic Seminar	1		GC1Y 1000	Critical Thinking (student's choice) (pre-req to GC2Y 2000)	3	Core
ENGL 1101*	English Composition I (pre-req to ENGL 1102)	3	Core	ENGL 1102	English Composition II	3	Core
MATH 1261*	Calculus I (pre-req to MATH 1262, 1401, and 2150, and PHYS 2211/2211L)	4	Core + Field	MATH 1262*	Calculus II (pre-req to MATH 2263 and 3030)	4	Field
CSCI 1301*	Computer Science I	3	Core + Cognate	MATH 2150*	Linear Algebra (pre-req to MATH 4989)	3	Field
Core Humanities	Humanities and Ethics (student's choice)	3	Core	POLS 1101	American Government	3	Core
Semester Hours 14				Semester Hours	16		
Summer Students who start with MATH 1113: Pre-Calculus should consider taking MATH 1262 in the summer of Year 1.							
Notes:	ENGL 1101, ENGL 1102, MATH 1261 (or MATH 1113), and GC1Y 1000 must be completed by 30 earned hours. First-Year Academic Seminar is a graduation requirement and impacts a student's GPA; however, it does not count toward the minimum of 120 semester hours required for a degree.						

Year 2							
	Fall	Spring					
Course	Title	Hours	Area	Course	Title	Hours	Area
MATH 2263*	Calculus III (pre-req to MATH 4261, 4300, 4340, and 4989)	4	Field	MATH 4340*	Differential Equations	3	Major
MATH 3030*	Foundations of Mathematics (pre-req to MATH 4081, 4110, 4261, 4300, 4510, and 4989, and MAED 3119 and 3121)	3	Major	MATH 4510*++	Geometry (pre-req to MATH 4081 and MATH 4261)	3	Major
MATH 1401*	Elementary Statistics	3	Field	GC2Y 2000	Global Perspectives (student's choice)	4	Core
Core Art	Fine Arts (student's choice)	3	Core	HIST 2111 or HIST 2112	The United States to 1877 or The United States Since 1877	3	Core
Lang 1001*	World Language I (1001-level)	3	Field	Lang 1002*	World Language II (1002-level)	3	Field
Semester Hours 16				Semester Hours	16		
Summer GC2Y 2000 can be completed during study abroad in the summer.							
Notes:	Students must complete a world language course at the 1002 level or higher. Complete the WebCAPE exam to determine placement for first course. GC2Y 2000 must be taken between 30–59 earned hours.						

Year 3							
	Fall	Spring					
Course	Title	Hours	Area	Course	Title	Hours	Area
MATH 4300*+	Complex Variables	3	Major	MATH 4261*++	Mathematical Analysis I	3	Major
MATH 4110*+	Number Theory (pre-req to MATH 4081 and 4261)	3	Major	MATH 4989*	Intro to Research in Math (pre-req to MATH 4990)	1	Major
PHYS 2211* PHYS 2211L*	Principles of Physics I & Lab	4	Core + Cognate	MAED 3121*++	Numbers and Algebra in Secondary Math	3	Major
MAED 3119*+	Geometry and Measurement in Secondary Math	3	Major	EDIS 4425*++	Seminar: Experience Teaching Math & Science	3	Cognate
Gen Elective	Any general elective course	3	Elective	Core Science	Science with Lab (student's choice)	4	Core
Semester Hours 16			Semester Hours	14			
Students must secure a research advisor and arrange registration for MATH 4989 in the spring of Year 3.At least one 4000-level MATH class must be completed before taking MATH 4989.Notes:EDIS 4425 will not be offered every year, and MAED 3119 and MAED 3121 are only offered every other year. The courses should be taken when offered (provided pre-requisites are met).General electives can be in any discipline and any level (1000–4999).							

Year 4							
Fall				Spring			
Course	Title	Hours	Area	Course	Title	Hours	Area
MATH 4990*	Senior Project	3	Major	MATH Elective*	4000-level MATH elective	3	Major
MATH 4081*+	Abstract Algebra	3	Major	Gen Elective	Any general elective course	4	Elective
Gen Elective	Any general elective course	4	Elective	Gen Elective	Any general elective course	3	Elective
Gen Elective	Any general elective course	3	Elective	Gen Elective	Any general elective course	3	Elective
Gen Elective	Any general elective course	3	Elective				
Semester Hours		16		Semester Hours		13	
MATH 4990 is a continuation of the capstone experience and should immediately follow MATH 4989. Arrangements for registration should be coordinated through your research advisor. Notes: One 4000-level MATH elective will be offered per year. Students are advised to take a 4000-level MATH elective when it is offered (provided they meet the prerequisite). General electives can be in any discipline and any level (1000–4999).							

	Legend
Area	This section of the plan references the area of the curriculum the course fulfills.
	Core IMPACTS — coursework required for every student regardless of major, which includes the following areas:
Core	Institutional Priority (GC1Y 1000 and GC2Y 2000); Mathematics and Quantitative Skills; Political Science and U.S. History;
	Arts, Humanities, and Ethics; Communicating in Writing; Technology, Mathematics, and Sciences; and Social Sciences.
Field	Core Field of Study courses, part of each major's requirements. These courses prepare students for further study in their
Field	chosen major field. Field of Study courses are specific to each major program.
Major	Mathematics Major requirements for Teaching Concentration
Cognate	Cognate courses are required courses within a student's curriculum. These courses are connected to the major but may be
	from other academic disciplines.
Elective	Course(s) a student selects. Hours are needed to meet overall graduation hours. Number of electives varies per major.
	Electives can be used towards GC Journeys, minors, or professional/graduate school pre-requisites, or to take courses of
	interest.