

Mathematics, B.S. Teaching Concentration

2023–24 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 2023–24 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		MATH 1262*	Calculus II (pre-req to MATH 2263, MATH 3030, and PHYS 2212/2212L)	4	F
ENGL 1101*	English Composition I (pre-req to ENGL 1102)	3	A	Core Area C1	Humanities and Ethics (student's choice)	3	C
MATH 1261*	Calculus I (pre-req to MATH 1262, MATH 2150, and PHYS 2211/2211L)	4	A	ENGL 1102	English Composition II	3	A
CSCI 1301*	Computer Science I (pre-req to CSCI 1302)	3	Cognate	MATH 2150*	Linear Algebra	3	Major
GC1Y 1000	Critical Thinking (pre-req to GC2Y 2000)	3	B	Core Area E	Social Science (student's choice)	3	E
Semester Hours		14		Semester Hours		16	
Summer	If starting Area A with MATH 1113: Pre-Calculus, student should consider taking MATH 1262 in the summer of Year 1.						
Notes:	Area A and GC1Y 1000 must be completed by 30 earned hours. MATH 0001 does not count toward 120 hours required for graduation.						

Year 2							
Fall				Spring			
Course	Title	Hours	Area	Course	Title	Hours	Area
MATH 2263*	Calculus III (pre-req to MATH 4261, 4300, and 4340)	4	F	MATH 4340*	Differential Equations	3	Major
MATH 3030*	Foundations of Mathematics (pre-req to MATH 4081, 4110, 4261, 4300, and 4510, 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	D	GC2Y 2000	Global Perspectives	4	B
Lang 1001	World Language I (1001-level)	3	F	Lang 1002	World Language II (1002-level)	3	F
Core Area C2	Fine Arts (student's choice)	3	C	Core Area E	Social Science (student's choice)	3	E
Semester Hours		16		Semester Hours		16	
Summer	GC2Y 2000 can be completed during study abroad in the summer.						
Notes:	Student must complete a world language course at the XXXX 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	3	Major	MATH 4989*	Intro to Research in Math	1	Major
PHYS 2211 +PHYS 2211L	Principles of Physics I & Lab	4	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	Gen Elective	Any general elective course	3	Elective
Semester Hours		16		Semester Hours		13	
Notes:	Students must secure research advisor and arrange registration for MATH 4989 in the Spring of the 3rd year. 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	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	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		15		Semester Hours		15	
Notes:	<p>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.</p> <p>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).</p> <p>General electives can be in any discipline and any level (1000–4999).</p>						

Legend	
Area	This section of the plan references the area of the curriculum the course fulfills.
A	Core Area A: Essential Skills
B	Core Area B: Institutional Options
C	Core Area C: Humanities, Ethics, and Fine Arts
D	Core Area D: Science, Technology, and Math
E	Core Area E: Social Sciences
F	Core Area F: Major Directed Core Requirements
Major	Major Requirements
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.
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.