

Roadmap B.S. in Mathematics: Teaching option - AY 2022-2023

YEAR 1: FALL			YEAR 1: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 75 (LD GE B4) ⁰	4	CRT/ALEKS PPL	MATH 76	4	MATH 75/(75A & B)
CSCI 40	4	MATH 75 (Conc. OK)	MATH 101	4	MATH 75
LD GE A1	3		PHYS 4A+4AL (B1+B3) ⁰	4	MATH 76 (Conc. OK)
LD GE A3	3		LD GE E	3	
TOTAL UNITS	14	(9 GE)	TOTAL UNITS	15	(7 GE)

YEAR 2: FALL			YEAR 2: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 77	4	MATH 76	MATH 81	3	MATH 77
MATH 111	4	MATH 76	MATH Elective ²	3/4	See table below
EHD 50 (Credential Pre-Req)	3		LD GE B2	3	
LD GE A2	3		LD GE C1	3	
			HIST 11 or 12 (D1)	3	
TOTAL UNITS	14	(3 GE)	TOTAL UNITS	15/16	(9 GE)

YEAR 3: FALL			YEAR 3: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 152 ¹	4	MATH 77	MATH 151 ¹ or 171 ¹	4	MATH 111; and MATH 152 (for MATH 151)
MATH Elective ²	3/4	See table below	MATH 193D ² (Spring only)	1	See table below
LD GE C2	3		MATH Elective ²	3	See table below
LD GE C1 or C2	3		LD GE D2	3	
PL SI 2 (US & Ca Govt)	3		LD GE F	3	
TOTAL UNITS	16/17	(9 GE)	TOTAL UNITS	14	(6 GE)

YEAR 4: FALL			YEAR 4: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 171 ¹ or 151 ¹	4	MATH 111; and MATH 152 (for MATH 151)	MATH 149S ²	4	MATH 151; 161 & 171 (161 & 171 Conc. OK)
MATH Elective ²	3	See table below	UD GE IB	3	
UD GE ID ⁰	3		UD GE IC	3	
UD MI ⁰	3		CI 149 (Credential Pre-Req)	3	
Free Elective	3		Free Elective	3	
TOTAL UNITS	16	(6 GE)	TOTAL UNITS	16	(6 GE)

⁰3 units of MATH 75 (or MATH 75A) also will satisfy the G.E. Foundation B4 requirement.

⁰PHYS 4AL is not required for this option in the math major. If students wish to include PHYS 4A as a General Education Breadth course, they must also take PHYS 4AL.

⁰Consider taking ANTH 105W (UD MI) or ANTH 116W (UD GE ID) to satisfy your upper division Writing Skills Requirement.

¹ It is suggested to take MATH 81 before taking MATH 152.

¹ Taking MATH 116 before taking MATH 151 has been found beneficial

¹ Taking at least one of MATH 161, 128, or 165 before taking MATH 171 has been found beneficial.

² The following table summarizes the MATH Electives for the TEACHING option. See your advisor from the Math Department.

Course Number	Course Title	Prereq	Semester
MATH 143	History of Mathematics	MATH 75	Fall and Spring
MATH 145	Problem Solving	MATH 111; EHD 50 (concur. OK)	Fall and Spring
MATH 149S	Capstone Math for Teachers	MATH 151; 161 and 171 (concur. OK)	Spring only
MATH 161	Principles of Geometry	MATH 111	Fall and Spring
MATH 193D	Junior Seminar in Mathematics Teaching	MATH 111 and at least one of MATH 101, 143, or 145	Spring only
MATH Elective*			

*The fifth MATH elective can be any 3-4 unit mathematics course, upper division or graduate (excluding MATH 100, 102, 133, 134, 137, 138, 139). Special conditions apply for graduate courses; see department advisor.

Advising note: Students should meet with their academic advisor from the Department of Mathematics every semester. Students in this option should also consult with a credential advisor in the Department of Mathematics no later than the beginning of their senior year.