

Roadmap B.S. in Mathematics: Teaching option For Transfer Students

This guide is an unofficial document intended to be used for advising and course planning. This document cannot be used to waive or supersede requirements listed in the catalog. Fulfillment of all University requirements (including required units) will be determined by the office of the Registrar.

This guide assumes that the student has satisfied and transferred from community college all of the lower division GE requirements, and the following courses: MATH 75, 76, 77, 81; and at least one of PHYS 4A or CSCI 40. Note that both of these courses are required for the mathematics major. Besides satisfying the major requirements and GE requirements, students also need to earn at least 120 units in total.

YEAR 1: FALL			YEAR 1: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 111	4	MATH 76	MATH 101 ¹	4	MATH 75
MATH 152 or 143	4	MATH 77 or MATH 75	MATH 193D ² (Spring only)	1	See table below
CSCI 40 or PHYS 4A ⁰ (if not taken at CC)	4/3	MATH 75 or MATH 76 (concurrently OK)	MATH 143 or 152	4	MATH 75 or MATH 77
UD GE area 2 or 5	3		MATH 161 ² (Spring only)	3	MATH 111
			UD GE area 3	3	
TOTAL UNITS	14/15		TOTAL UNITS	15	

YEAR 2: FALL			YEAR 2: SPRING		
COURSE	UNITS	PREREQ	COURSE	UNITS	PREREQ
MATH 151 ¹	4	MATH 111 and 152	MATH 171 ¹	4	MATH 111
MATH 145 ² (Fall only)	3	MATH 111	MATH 149S ² (Spring only)	4	See table below
MATH Elective ²	3/4		UD GE area 4 ⁰	3	
Grad. Req. MI ⁰	3		Free Elective (if needed)	1	
Free Elective (if needed)	2		Free elective or a writing course (if requirement has not been satisfied yet)	3	
TOTAL UNITS	15/16		TOTAL UNITS	15	

⁰ PHYS 4AL is not required for this option in the math major. If students wish to include PHYS 4A as a General Education area 5B course, they must also take PHYS 4AL.

⁰ Consider taking ANTH 105W (Grad. Req. MI) or ANTH 116W (UD Integration area 4) 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	Fall only
MATH 149S	Capstone Math for Teachers	MATH 145, 151 and 161 (161 concur. OK)	Spring only
MATH 161	Principles of Geometry	MATH 111	Spring only
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 at least once per year.

Upper Division GE courses and MATH 101 are also offered during summer sessions. Students in this option should consult with a credential advisor in the Department of Mathematics no later than the beginning of their senior year.