

BS/MA in Mathematics Secondary Education (4+1) – plan of study
(assumes no AP calculus or other credit, and standard language placement)

Bold = major requirement

Italics = Liberal Arts Curriculum Requirement

Double Asterisk** = double-count

	Fall	Spring	Math-BS Course list (40 courses)	
Freshman	Math 121 <i>Phil 201</i> <i>TRS 201 / Eng 101</i> <i>Language 103</i> <i>LAC elective 1</i>	Math 122 Phys 215 <i>Phil 202</i> <i>TRS 201 / Eng 101</i> <i>Language 104</i>	<u>Math (13)</u> Math 121 Math 122 Math 221 Math 222 Math 248 Math 301 Math 321 Math 421 Math 424 Math 403 Math 431 Math 500+** Math 322 <i>or</i> other 2nd-level elective	<u>Liberal Arts (13)</u> Phil 201 Phil 202 Phil elective TRS 201 TRS 202 TRS 357A ENG 101 Literature LAC Fine Arts LAC History LAC Social Sci. LAC Language 103 Language 104
Sophomore	Math 221 Phys 216 Educ 271 HSSS 203 <i>TRS 202</i>	Math 248 Math 301 Educ 251 <i>TRS 357A</i> Science elective	“500+” means any 500-level Math	<u>Free Electives (6)</u> Educ 251 Educ 271 Educ 582** Educ 586** Educ 702** Free elective 1
Junior	Math 321 Math 222 Educ 586** CSC 1 <i>LAC elective 2</i>	Math 403 Math 322/424/400+ CSC 2 Educ 582** <i>LAC elective 3</i>	<u>Science (8)</u> Phys 215 Phys 216 HSSS 203 (stats) Science Elective Science Elective Science Elective Two CSC	
Senior	Math 421 Math 431 Science elective <i>LAC elective 4</i> Free Elective also: Math 498 (comps – 0 credits)	Math 424/400+ Math 500+** <i>LAC elective 5</i> Science elective Educ 702**		
Summer	Educ 525	Educ 699	MA Course list (14 courses)	
Grad year	Educ 579 Educ 581 Math 500+	Student Teaching: Educ 500, 561, 562, 563	<u>Core (7)</u> Educ 525 Educ 582** Educ 586** Educ 702** Educ 581 Educ 699 Educ 765	<u>Math-specific (3)</u> Educ 579 Math 500-level** Math 500-level <u>Student Teaching (4)</u> Educ 500, 561, 562, 563

- The first two years are identical to the BS in Math Secondary Education, which is presumed to be the initial degree program for students who elect to pursue the 4+1.
- LAC Electives (5) = Literature, Fine Arts, Philosophy, History/Politics, Social Science
- Two CSC classes chosen from among: CSC 113, 123, 124, 212, 223
- Electives can be moved around of course. Most bold courses are only offered in the semester they are shown. (Exceptions: Math 121, 122, 221 are offered in both terms; science electives are electives that can be taken anytime.) EDUC courses are all semester-specific.
- Only four graduate courses taken during the undergraduate career can “double-count” towards the MA degree. But a student who completes the BS requirements (40 courses) early, through means such as AP credits or overelection, can take additional graduate-level coursework during their undergraduate career; any such courses would only count for progress towards the MA degree.
- This lists the 500-level math class as an elective, but in fact any of the required 400-level math courses can be taken at graduate level instead. Some specific options for upper-level math sequence include the following, although there are certainly many other arrangements possible. For instance:

1.

	Fall	Spring	This is the best option if one wants to leave open the option to switch back to the 4-year MATHSEC-BS plan after Jr spring. 432 satisfies the “second course” requirement. The math graduate course is in the semester where there is no graduate education course.
Junior	321 222	403 424	
Senior	421 531	400+ 432	

2.

	Fall	Spring	322 satisfies the “second course” requirement. Here, 403 is taken at grad level (503) in junior spring, which means no grad level class in senior fall (which frees up time for the comprehensive exam).
Junior	321 222	322 503	
Senior	421 431	424 400+	

3.

	Fall	Spring	322 satisfies the “second course” requirement. Similar to option #2 except that the probability course 431/531 (required for licensure) is delayed until grad year, in favor of some other senior fall math elective.
Junior	321 222	322 503	
Senior	421 400+	424 400+	
Grad	531		