

# Mathematics, B.S. - Secondary Teacher Prep/Pure Mathematics Subplan/Option: 120 units

## Associate Degree Transfer, Mathematics, AS-T 2020-2021 Academic Year

*Students should adhere to this recommended plan to ensure completion of 60 additional units.*

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	MAT 3100 Introduction to Mathematical Proof [FSpSu]	Prereq: MAT 116 or MAT 1150.	4	MAT 3140 Introduction to Real Analysis I [FSpSu]	Prereq: MAT 310 or MAT 3100; and MAT 215 or MAT 2140.	4	<i>This roadmap applies only to students who took 3 units from Group A for the TMC. * If the student took Introduction to Linear Algebra from Category A, this course may be either MAT 2240 (3) or MAT 2250 (4). If the student took Ordinary Differential Equat</i>
	STA 2100 Introduction to Statistics [FSpSu]	Prereq: AP Calc AB, AP Calc B, MAT 114, MAT 1140, MAT 120, MAT 1200, MAT 130, MAT 1300, MAT 115, MAT 1150, MAT 116, MAT 214, MAT 2140, or MAT 215.	4	STA 2200 Introduction to Probability [FSpSu]	Prereq: STA 2100.	3	
	GE Area B5: Science and Technology Synthesis [FSp]		3	MAT 2010 Introduction to Computational Methods in Mathematics [FSp]	Prereq: MAT 116 or MAT 1150. Coreq: MAT 2010L.	2	
	Major Required	Prereq: *See Comment	4	MAT 2010L Introduction to Computational Methods in Mathematics Laboratory [FSp]		1	
			0	HST 3340 History of American Institutions and Ideals, 1877-present (C3, Amer. Ideals Part A) [FSp]	If American Ideals requirement has been satisfied by lower division transferred courses, take any C3 Upper Division Arts and Humanities Synthesis course.	3	
			0	Option Required [FSp]	Select from Curriculum Sheet	3	
			<b>15</b>			<b>16</b>	
				<b>Total Units</b>		<b>Total Units</b>	

Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	MAT 4280 Functions of a Complex Variable [FSpSu]	Prereq: MAT 3140 and MAT 2140; MAT 314 and MAT 2140; MAT 3140 and MAT 215; or MAT 314 and MAT 215.	4	MAT 4190 Advanced Linear Algebra [FSp]	Prereq: MAT 208 or MAT 2250; and MAT 310 or MAT 3100.	4	
MAT 4170 Introduction to Abstract Algebra I [FSp]	Prereq: MAT 310 or MAT 3100.	4	Major Required	Prereq: **See Comment	4		
PLS 4205 American Political Institutions and Behavior (D4, Amer. Ideals Part B) [FSp]	If American Ideals requirement has been satisfied by lower division transferred courses, take any D4 Social Science Synthesis course.	3	Option Required [FSp]	Select from Curriculum Sheet	3		
Option Required [FSp]	Select from Curriculum Sheet	3	Option Required [FSp]	Select from Curriculum Sheet	3		
Unrestricted Elective		1			0		
<i>File an application to graduate</i>							
<b>Semester Total Units</b>		<b>15</b>	<b>Semester Total Units</b>		<b>14</b>		
					<b>Total Units</b>	<b>60</b>	