

B.S. in Mathematics with Mathematics Option – 3 Year Plan ¹

Year 1 Fall		Year 1 Spring		Year 1 Summer	
MATH 2110 Calculus	4	MATH 3450 Linear Algebra	3	Social / Behavioral Science	3
MATH 3010 Intro to Math Reasoning	3	MATH 3120 Differential Equations I	3	Minor Requirement or Elective	3
Science/Lab	4	Science/Lab	4		
APSU 1000	1	CSCI 2000 Programming and Data Structures	4		
Social/Behavioral Science	3				
Total	15	Total	14	Total	6

Year 2 Fall		Year 2 Spring		Year 2 Summer	
MATH 3130 Differential Equations II	3	STAT 4250 Mathematical Statistics (even year) / Minor Requirement or Elective (odd year)	3	Minor Requirement or Elective	3
MATH 4500 Modern Algebra (odd year) / MATH 4210 Topology ³ or Minor Requirement or Elective (even year)	3	MATH 4710 Introduction to Real Analysis (odd year) / Minor Requirement or Elective (even year)	3	Minor Requirement or Elective	3
COMM 1010 Fundamentals of Public Speaking	3	Humanities / Fine Arts	3		
ENGL 2030 Traditions in World Literature	3	MATH 4160 Complex Analysis ³ (even year) / Minor Requirement or Elective (odd year)	3		
Minor Requirement ² or Elective	3	Minor Requirement or Elective	3		
Total	15	Total	15	Total	6

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Year 3 Fall		Year 3 Spring		Year 3 Summer	
MATH 4500 Modern Algebra (odd year) / MATH 4210 Topology ³ or Minor Requirement or Elective (even year)	3	STAT 4250 Mathematical Statistics (even year) / Minor Requirement or Elective (odd year)	3	Minor Requirement or Elective	3
MATH 4450 Mathematical Models	3	MATH 4710 Introduction to Real Analysis (odd year) / Minor Requirement or Elective (even year)	3	Minor Requirement or Elective	3
Math 4110 Number Theory ³ or Minor Requirement or Elective	3	MATH 4160 Complex Analysis ³ (even year) / Minor Requirement or Elective (odd year)	3		
MATH 4240 Probability	3	Humanities / Fine Arts	3		
History	3	History	3		
		MATH 4810	1		
Total	15	Total	16	Total	6

¹Students are eligible to follow this plan if they have a 4 or a 5 on the Advanced Placement Test for BC Calculus or if they have earned APSU credit for MATH 1910 and MATH 1920 in a dual enrollment program while in high school. This plan also assumes that the student has advanced placement or dual enrollment credit for two general education core courses. (The chart reflects the assumption that credit has already been earned for ENGL 1010 and ENGL 1020, but it may easily be adjusted if the advanced placement credit corresponds to a different general education core requirement.)

² Suggested minors:

- Statistics
- Computer Science
- Physics
- Engineering Technology
- Decision Sciences
- Accounting
- Economics
- Finance

³ Topology, Number Theory, and Complex Analysis are not required for the Mathematics option, but are recommended.