

MATHEMATICS, BACHELOR OF SCIENCE

Dr. Hamed Shojaei, Department Head

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Curriculum

Course	Title	Hours	Completed
Freshman			
Fall			
ENGL 1013	Composition I ¹	3	_____
MATH 1001	Orientation to Mathematics	1	_____
MATH 2914	Calculus I	4	_____
USHG 1XXX	U.S. History and Government ¹	3	_____
Elective ²		4	_____
	Hours	15	
Spring			
ENGL 1023	Composition II ¹	3	_____
MATH 2703	Discrete Mathematics	3	_____
MATH 2924	Calculus II	4	_____
SS 1XXX	Social Science Courses ¹	3	_____
Elective ²		2	_____
	Hours	15	
Sophomore			
Fall			
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
MATH 2934	Calculus III	4	_____
MATH 3003	Foundations of Advanced Mathematics	3	_____
PHYS 2114 & PHYS 2000	Calculus-Based Physics I and Physics Laboratory I	4	_____
Elective ²		1	_____
	Hours	15	
Spring			
COMS 2803	Programming in C	3	_____
MATH 3243	Differential Equations I	3	_____
PHYS 2124 & PHYS 2010	Calculus-Based Physics II and Physics Laboratory II	4	_____
SS 1XXX	Social Science Courses ¹	3	_____
Elective ²		2	_____
	Hours	15	
Junior			
Fall			
FAH 1XXX	Fine Arts and Humanities Courses ¹	3	_____
MATH 4003	Linear Algebra I	3	_____
STAT 3153	Applied Statistics	3	_____
Elective ²		6	_____
	Hours	15	
Spring			
MATH 3203	Introduction to Analysis	3	_____
MATH 4123	Mathematical Modeling	3	_____

SFHS 1XXX	Social Sciences/Fine Arts/ Humanities/Communication Courses ¹	3	_____
Elective ²		6	
Hours		15	
Senior			
Fall			
MATH 4033	Abstract Algebra I	3	_____
MATH Elective ³		3	
Elective ²		9	
Hours		15	
Spring			
MATH 4971	Mathematics Senior Seminar	1	_____
MATH Elective ³		3	
Elective ²		11	
Hours		15	
Total Hours		120	

¹ See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)".

² At least 40 of the total hours required for graduation must be 3000-4000 level courses.

³ MATH 3033 Methods of Teaching Elementary Mathematics and MATH 4703 Special Methods in Mathematics may not be used to satisfy this requirement the 3000-4000 level mathematics elective. MATH 4993 Special Problems in Mathematics may not be used without prior approval of the department head.