MATHEMATICS, BACHELOR OF SCIENCE

Student interested in Mathematics for Teacher Licensure, click here.

Curriculum

The matrix below is a sample plan for all coursework required for this program.

Course	Title	Hours
Freshman		
Fall		
ENGL 1013	Composition I [1]	3
USHG 1XXX	U.S. History and Government [1]	3
MATH 1001	Orientation to Mathematics	1
MATH 2914	Calculus I	4
Elective [2]		4
	Hours	**15**
Spring		
ENGL 1023	Composition II [1]	3
SS 1XXX	Social Science Courses [1]	3
MATH 2703	Discrete Mathematics	3
MATH 2924	Calculus II	4
Elective [2]		2
	Hours	**15**
Sophomore		
Fall		
FAH 1XXX	Fine Arts and Humanities Courses [1]	3
PHYS 2114 & PHYS 2000	Calculus-Based Physics I and Physics Laboratory I	4
MATH 2934	Calculus III	4
MATH 3003	Foundations of Advanced Mathematics	3
Elective [2]		1
	Hours	**15**
Spring		
SS 1XXX	Social Science Courses [1]	3
COMS 2803	Programming in C	3
PHYS 2124 & PHYS 2010	Calculus-Based Physics II and Physics Laboratory II	4
MATH 3243	Differential Equations I	3
Elective [2]		2
	Hours	**15**
Junior		
Fall		
FAH 1XXX	Fine Arts and Humanities Courses [1]	3
STAT 3153	Applied Statistics	3
MATH 4003	Linear Algebra I	3
Elective [2]		6
	Hours	**15**
Spring		
SFHS 1XXX	Social Sciences/Fine Arts/Humanities/Communication Courses [1]	3
MATH 3203	Introduction to Analysis	3
MATH 4123	Mathematical Modeling	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] 3000 - 4000 level math elective. MATH 3033 Methods of Teaching Elementary Mathematics and MATH 4703 Special Methods in Mathematics may not be used to satisfy this requirement. MATH 4993 Special Problems in Mathematics may not be used without prior approval of the department head.