

Bachelor of Science in Applied Mathematics Curriculum

Required courses and recommended terms during which they should be taken:

Freshman Year	Fall	
MATH 251	Differential Calculus	4
SPE 111	Fundamentals of Speech	3
WRI 121	English Composition	3
	Social Science elective	3
	Elective	3
Total		16

Freshman Year	Winter	
MATH 252	Integral Calculus	4
MATH 221	Introduction to Computational Software	2
PHY 221	General Physics with Calculus	4
WRI 122	English Composition	3
	Social Science elective	3
Total		16

Freshman Year	Spring	
MATH 253N	Sequences and Series	4
PHY 222	General Physics with Calculus	4
	Humanities elective	3
	Social Science elective	3
Total		14

Sophomore Year	Fall	
MATH 254N	Vector Calculus I	4
MATH 327	Discrete Mathematics	4
PHY 223	General Physics with Calculus	4
	Elective	3
Total		15

Sophomore Year	Winter	
MATH 341	Linear Algebra I	3
MATH 354	Vector Calculus II	4
	Humanities elective	3
	Elective	4
Total		14

Sophomore Year	Spring	
MATH 361	Statistical Methods I	4
	Humanities elective	3
	Elective	3
	Elective	3
	Elective	3
Total		16

Junior Year	Fall	
MATH 311	Introduction to Real Analysis	4
MATH 321	Applied Differential Equations I	4
SPE 321	Small Group and Team Communication	3
	Focused elective *	3
Total		14

Junior Year	Winter	
MATH 322	Applied Differential Equations II	4
WRI 227	Technical Report Writing	3
	Focused elective*	3
	Elective (upper division)	4
	Elective	2

Total 16

Junior Year	Spring	
MATH 451	Numerical Methods I	4
	Focused elective*	3
	Math/Physics elective **	3
	Elective (upper-division)	3
	Elective	3
Total		16

Senior Year	Fall	
MATH 421	Applied Partial Differential Equations I	4
	Focused elective *	4
	Math/Physics elective **	4
	Elective	3
Total		15

Senior Year	Winter	
MATH	Mathematics Core (upper-division) ***	4
	Focused elective *	3
	Social Science elective	3
	Elective	3
	Elective	3
Total		16

Senior Year	Spring	
MATH	Mathematics Core (upper-division) ***	4
WRI 327	Advanced Technical Writing	3
	Elective	3
	Elective	3
Total		13

* Students will choose at least 16 credits from outside of mathematics with the approval of a mathematics advisor. At least 9 credits should be from a 3 course sequence. See above for examples.

** Students will choose 2 upper-division courses from mathematics or physics with the approval of a mathematics advisor.

*** See "Upper-Division Core Requirements" listed above in the degree requirements section. The years and terms that these courses are offered will vary. For questions about availability, please consult with an advisor or contact the Mathematics Department.