Bachelor of Science in Applied and Computational Mathematics

To qualify for a Bachelor of Science in Applied and Computational Mathematics, the student must achieve a grade of C or better on all required and elective courses. Courses may be counted toward both Major and General Requirements. However, no course may fulfill two categories of General Requirements. (If you use any course for both Major and General Requirements, be sure to count the credits only ONCE toward the degree total.)

Required Courses (48 credits)

Course Title	Course Number	Credits	Sem/YR	Senior Review
Calculus I, II, III	640:121, 122, 221	12		
Linear Algebra OR Linear Algebra with Applications	640:250 OR 640:253	3		
Elements of Physics I AND Lab	750:131 AND 133	4		
Elements of Physics II AND Lab OR General Biology I AND Lab	750:132 AND 134 OR 120:101 AND 107	4		
Programming Fundamentals	198:111	4		
Object-Oriented Programming	198:113	3		
Mathematical Foundations of Computer Science	198:171	3		
Elementary Differential Equations	640:314	3		
Probability and Stochastic Processes OR Applied Probability	640:331 OR 198:467	3		
Data Structures	198:213	3		
Introduction to Computational Mathematics OR Advanced Computational Mathematics	640:357 OR 640:497	3		
Applied Statistics OR Mathematical Statistics	960:336 OR 960:481	3		
Total		**48**		

Elective Courses (9 credits)

Any three Mathematics (640), Statistics (960), or Computer Science (198) courses at 400-level				
		3		
		3		
		3		
Total Credits		**57**		