

## Bachelor of Science in Applied and Computational Mathematics-Data Science track

To qualify for a Bachelor of Science in Applied and Computational Mathematics-Data Science track, 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		
Elementary Applied Statistics OR Introduction to Data Science	960:183 OR 960:185	3		
Programming Fundamentals	198:111	4		
Object Oriented Programming	198:113	3		
Mathematical Foundations of Computer Science	198:171	3		
Explore Careers in Mathematics	640:199	1		
Data Structures	198:213	3		
Elementary Differential Equations OR Introduction to Computational Mathematics	640:314 OR 640:357	3		
Probability and Stochastic Processes	640:331	3		
Applied Statistics OR Statistical Models	960:336 OR 960:489	3		
Artificial Intelligence	198:414	3		
Machine Learning	198:454	3		
<b>Total</b>		47		
<b>400-level Elective Courses (9 credits)</b>				
Any three Mathematics (640), Statistics (960), or Computer Science (198) courses at 400-level				
		3		
		3		
		3		
<b>Total Credits</b>		<b>56</b>		