

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.)

| Course Title | Course Number | Credits | Sem/YR | Senior Review |
|---|---|----------------|---------------|----------------------|
| Required Courses (47 credits) | | | | |
| Calculus I OR Active Calculus I, Calculus II OR Active Calculus II, Calculus III | 640:121 OR 123, 640:122 OR 124, 640:221 | 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 | | |
| Total | | 47 | | |
| 400-level Elective Courses (9 credits) | | | | |
| Any three Mathematics (640), Statistics (960), or Computer Science (198) courses at 400-level | | | | |
| | | 3 | | |
| | | 3 | | |
| | | 3 | | |
| Total Credits | | 56 | | |