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

To qualify for a Bachelor of Science in Applied and Computational Mathematics--Biomathematics 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 (38 credits)** | | | | |
| Calculus I OR Active Calculus I, Calculus II OR Active Calculus II, Calculus II | 640:121 OR 123, 640:122 OR 124, 640:221 | 12 | | |
| Linear Algebra OR Linear Algebra with Applications | 640:250 OR 640:253 | 3 | | |
| General Biology I AND Lab | 120:101 AND 107 | 4 | | |
| General Biology II AND Lab | 120:102 AND 108 | 4 | | |
| Programming Fundamentals | 198:111 | 4 | | |
| Mathematical Foundations of Computer Science | 198:171 | 3 | | |
| Explore Careers in Mathematics | 640:199 | 1 | | |
| Explore Careers in Biology | 120:199 | 1 | | |
| Elementary Differential Equations | 640:314 | 3 | | |
| Probability and Stochastic Processes | 640:331 | 3 | | |
| **Total** | | 38 | | |
| **Mid-level Elective courses (6 credits; choose 2 courses)** | | | | |
| Data Structures | 198:213 | 3 | | |
| Applied Statistics | 960:336 | 3 | | |
| Introduction to Computational Mathematics | 640:357 | 3 | | |
| Cell Biology | 120:334 | 3 | | |
| Genetics | 120:307 | 3 | | |
| **Total** | | 6 | | |
| **400-level Elective Courses (12 credits)** | | | | |
| Any four Mathematics (640), Statistics (960), or Computer Science (198) courses at 400-level | | | | |
| | | 3 | | |
| | | 3 | | |
| | | 3 | | |
| | | 3 | | |
| **Total Credits** | | **56** | | |