

## 2021-2022 Academic Year

### Bachelor of Science in Biomedical Science

GENERAL EDUCATION (Bachelor of Science) see page 50 .....	42 hours
ADDITIONAL DEGREE REQUIREMENTS (Bachelor of Science) .....	14 hours
MAJOR - BIOLOGY CORE.....	31 hours
BIOMEDICAL SCIENCE REQUIREMENTS.....	27 hours
OPTIONAL MINOR.....	18-24 hours
ELECTIVES (without optional minor).....	10 hours
ELECTIVES (with optional minor).....	0 hours
Total Hours in Degree Program (without optional minor)	124 hours
Total Hours in Degree Program (with optional minor)	132-138 hours

**General Education (Bachelor of Science)** ..... 42 hours  
*CHE 1479 should be chosen from the approved lab science listing*  
*MAT 2445 should be chosen for the mathematics requirement*

**Additional Degree Requirements (Bachelor of Science)** ..... 14 hours  
CIS 1339 Introduction to Information Technology .....3 hours  
MAT 2451 Calculus I.....4 hours  
CHE 1489 General Chemistry II .....4 hours  
MAT 2343 Statistics.....3 hours

**Major – Biology Core**..... 31 hours  
BIO 1359 General Biology I ..... 3 hours  
BIO 1119 or BIO 1108 General Biology I Lab or S.T.I.N.G.E.R. I Lab .....1 hour  
BIO 1369 General Biology II .....3 hours  
BIO 1129 or BIO 1109 General Biology II Lab or S.T.I.N.G.E.R. II Lab .....1 hour  
BIO 2429 Comparative Vertebrate Anatomy ..... 4 hours  
BIO 3419 Microbiology ..... 4 hours  
BIO 3429 Cell Biology..... 4 hours  
BIO 3438 Genetics ..... 4 hours  
BIO 4119 Research..... 1 hours  
BIO 4311 Thesis and Assessment..... 3 hours  
BIO 3000 or 4000-level biology course.....3 hours

**Biomedical Science Requirements**..... 27 hours  
BIO 1159 Health Professions Seminar..... 1 hour  
SCI 1200 Medical Terminology..... 2 hours  
SCI 2104 Medical Internship.....1 hour  
BIO 3399 Pathophysiology.....3 hours  
PHY 2439 University Physics I ..... 4 hours  
PHY 2449 University Physics II ..... 4 hours  
CHE 2331 Organic Chemistry I.....3 hours  
CHE 2139 Organic Chemistry I Lab .....1 hour  
CHE 2341 Organic Chemistry II.....3 hours  
CHE 2149 Organic Chemistry II Lab .....1 hour  
CHE 4439 Biochemistry I .....4 hours

**Teacher Certification:** Students majoring in biology and seeking teacher certification should refer to the School of Education section in this catalog. All students seeking teacher certification in biology must be advised by both the biology faculty and the faculty of the School of Education.

**Students must have a grade of “C” or better in all prerequisites and in all required courses (BIO, CHE, CIS, MAT, and SCI) for a biology or biomedical science major.**

All graduating biology and biomedical majors will be required to take the Major Field Test (MFT) in biology as a condition for graduation. Results of this test will be used as an assessment tool for the biology curriculum and will not have a direct bearing on graduation, but is part of the student’s grade in BIO 4311.