**Degree:** Bachelor of Science (B.S.)  
**Major:** Biology  
**Track:** General Biology & Pre-professional

The School of Science and Mathematics offers a program of study leading to a B.S. degree with a major in Biology. There are two tracks within the biology degree: a general track and a pre-professional track. The general track will prepare students for graduate school and work as biologists. Biologists are involved in research which seeks to discover ways of curing disease, eliminating famine, minimizing man's effect on the climate, increasing life expectancy, and utilizing biological knowledge and understanding to improve our lives while at the same time protecting the environment. Consequently, biologists are employed by governmental agencies, the military, and private industry in such diverse fields as agriculture, wildlife biology, genetics, pharmaceuticals, law, and many others. The pre-professional track is designed for students interested in pursuing professional education in medicine, veterinary medicine, dentistry, pharmacy, optometry, forensic science, and other clinically related fields.

**Core Curriculum: Areas A-E**  
(See ABAC Core Curriculum, using Area D Science option)  
Area D: CHEM 1211/1211L and CHEM 1212/1212L are strongly recommended.

### Area F: Major courses – General & Pre-Professional Track  
18 hours

**Required Courses:** 8 hours  
**BIOL 1107 & lab**  
Principles of Biology I  
3/1  
**BIOL 1108 & lab**  
Principles of Biology II  
3/1

Choose a minimum of 10 hours from the following:  
**CHEM 1211 & lab**  
Principles of Chemistry I  
3/1  
**CHEM 1212 & lab**  
Principles of Chemistry II  
3/1  
**CHEM 2040 & lab**  
Fundamental Organic Chemistry I  
3/1  
**CHEM 2041**  
Fundamental Organic Chemistry II  
3  
**MATH 2000**  
Statistics  
3  
**Hours from Areas A and D**  
1-2

A minimum grade of C is required in all of these courses.

### Senior College Curriculum (required for both tracks):  
37 hours

**BIOL 2070**  
Botany  
4  
**BIOL 2080**  
General Zoology  
4  
**BIOL 3100**  
Introductory Biochemistry  
4  
**BIOL 3200**  
Genetics  
4  
**BIOL 3350**  
Ecology and Evolution  
4  
**BIOL 3500**  
Microbiology  
4  
**BIOL 3850**  
Comparative Vertebrate Anatomy  
4  
**BIOL 4100**  
Cell and Molecular Biology  
4  
**BIOL 4250**  
Animal Physiology  
4  
**BIOL 4900**  
Senior Seminar  
1

A minimum grade of C is required in these courses.

*Note: General Track may substitute BIOL 3800 for BIOL 3850, and BIOL 4200 for BIOL 4250*

### General Track  
23 hours

Electives: Choose 24 hours from the following:  
**PHYS 1111 or 2211**  
Physics I  
3/1  
**PHYS 1112 or 2212**  
Physics II  
3/1  
**BIOL 3030**  
Mycology  
4  
**BIOL 3040**  
Plant Pathology  
4  
**BIOL 3060**  
Entomology  
4  
**BIOL 3070**  
Animal Behavior  
4  
**BIOL 3090**  
Invertebrate Zoology  
4  
**BIOL 3180**  
Field Botany  
4  
**BIOL 3250**  
Toxicology  
3  
**BIOL 3800**  
Plant Anatomy OR
BIOL 3850 Comparative Vertebrate Anatomy 4
BIOL 4150 Neuroscience 4
BIOL 4200 Plant Physiology OR
BIOL 4250 Animal Physiology 4
BIOL 4300 Parasitology 4
BIOL 4400 Immunology 4
BIOL 4600 Biological Research Methods 2
BIOL 4601 Biological Research 2
BIOL 4890 Special Topics in Biology 1-4
ENGL 3010 Technical Writing 3
FRSC 3770 Ornithology 3
CHEM 2040L Organic Chemistry Lab II 1
SCIE 1003 Medical Terminology 1
BIOL 4500 Internship 1-3

**Pre-professional Track 23 hours**
Required Courses: 8 hours

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<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>PHYS 1112</td>
<td>Physics II</td>
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A minimum grade of C is required in these courses.

Electives: Choose 15 hours from the following:

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<td>SCIE 1003</td>
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<tr>
<td>BIOL 4500</td>
<td>Internship</td>
<td>1-3</td>
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</table>

**Total 120**

PHED 1100 and two PE activities