

BIOLOGY, B.S. - MOLECULAR BIOLOGY/BIOTECHNOLOGY OPTION

Major in Biology, BS

| Code | Title | Hours |
|--|---|-----------|
| CORE COURSES (C- or higher required) | | 24 |
| | Foundations of Biology - See Appendix 1 | |
| BIOL 211 | Concepts of Zoology | |
| BIOL 221 | Concepts of Botany | |
| BIOL 343 | Principles of Ecology & Evolution | |
| BIOL 362 | Cell and Developmental Biology | |
| BIOL 364 | Foundations of Genetics & Molecular Biology | |
| Option in Molecular Biology - See separate block | | |
| Total Hours | | 24 |

Appendix 1. Foundations of Biology

| Code | Title | Hours |
|-------------------------------------|------------------------|-------|
| Foundations of Biology C- or Higher | | 4 |
| BIOL 101 | Foundations of Biology | |

Concentration in Molecular Biology

| Code | Title | Hours |
|---|-------------------------------|-----------|
| REQUIRED MOLECULAR/BIOTECHNOLOGY COURSES | | |
| BIOL 462 | Molecular Biology | 4 |
| BIOL 466 | Molecular and Cell Techniques | 3 |
| Seminar in Molecular Biology | | 2 |
| BIOL 472 | Seminar In Biology | |
| ELECTIVES | | |
| undefined - Choose 6 hours from: | | 6 |
| Any 3-level BIOL course(s) | | |
| Any 4-level BIOL course(s) | | |
| Any 5-level BIOL course(s) | | |
| Note: This requirement may not be satisfied with BIOL 340, BIOL 390, or BIOL 324. | | |
| BIOL 463, 465, and 467 are recommended. | | |
| Total Hours | | 15 |

Req Related for Biology, BS

| Code | Title | Hours |
|--|--------------------------|-------|
| For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework. | | |
| CHEMISTRY | | |
| A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232. | | |
| CHEM 111 | Introductory Chemistry 1 | 4 |
| CHEM 112 | Introductory Chemistry 2 | 4 |
| Organic Chemistry I (C- minimum) and II | | 8 |
| CHEM 231 | Organic Chemistry 1 | |

| | | |
|---|-------------------------|--------------|
| CHEM 232 | Organic Chemistry 2 | |
| CHEM 326 | Biochemistry 1 | 4 |
| Plant Biochemistry or Biochemistry II - Choose 1 of the following: | | 4 |
| BIOL 324 | Plant Biochemistry | |
| CHEM 324 | Plant Biochemistry | |
| CHEM 327 | Biochemistry 2 | |
| MATHEMATICS AND COMPUTER SCIENCE | | |
| Calculus I or Honors Calculus - Choose 1 of the following: | | 4-5 |
| MATH 161 | Calculus 1 | |
| MATH 163H | Honors Calculus 1 | |
| Addl Mathematics or Computer Science Electives - Choose 1 class from: | | |
| Any CSCI 140-599 course(s) | | |
| Any MATH 160-599 course(s) | | |
| Note: This requirement may not be satisfied with CSCI 101, CSCI 111, or CSCI 121. | | |
| PHYSICS | | |
| undefined - Choose 1 of the following options 1-2: | | 8-10 |
| Option 1. Physics with Algebra | | |
| PHYS 131 | Physics 1 with Algebra | |
| PHYS 132 | Physics 2 with Algebra | |
| Option 2. Physics with Calculus | | |
| PHYS 231 | Physics 1 with Calculus | |
| PHYS 232 | Physics 2 with Calculus | |
| Total Hours | | 36-39 |