## Biology

## Requirements for the Major in Biology - Molecular Biology and Genetics Track

The major requires successful completion of the following:

| Code | Title | Semester Hours |
| :---: | :---: | :---: |
| Course Requirements ${ }^{\text {I,2 }}$ |  |  |
| BIOL I30 | Field Investigations in Biology | 4 |
| BIOL 133 | Introductory Molecular Biology and Genetics ${ }^{3}$ | 4 |
| BIOL 223 | Genetics (Lab) | 4 |
| BIOL 233 | Molecular Cell Biology | 4 |
| BIOL 243 | Molecular Methods (Lab) | 4 |
| BIOL 424 | Senior Seminar | 4 |
|  | General Chemistry (Lab) | 4 |
| or CHEM I50 | Advanced General Chemistry (Lab) |  |
| Select four of the following courses in molecular biology and genetics: ${ }^{4}$ |  | 16 |
| BIOL 213 | Evolutionary Biology |  |
| BIOL 218 | Principles of Animal Nutrition and Metabolism |  |
| BIOL 236 | Biochemistry |  |
| BIOL 280 | Molecular Genetics (Lab) |  |
| BIOL 300 | Biology of Aging (Lab) |  |
| BIOL 312 | General and Human Physiology |  |
| BIOL 314 | General and Human Physiology (Lab) |  |
| BIOL 316 | Biochemistry of Metabolism and Molecular Biology (Lab) |  |
| BIOL 317 | Biochemistry of Metabolism and Molecular Biology |  |
| BIOL 318 | Molecular Revolutions in Medicine |  |
| BIOL 319 | Cancer Cell Biology (Lab) |  |
| BIOL 320 | Cancer Cell Biology |  |
| BIOL 322 | Genes and Behavior |  |
| BIOL 323 | Environment and Development |  |
| BIOL 325 | Biology of Aging |  |
| BIOL 328 | Molecular Revolutions in Medicine (Lab) |  |
| BIOL 330 | Immunology (Lab) |  |
| BIOL 331 | Immunology |  |
| BIOL 333 | Developmental Biology (Lab) |  |
| BIOL 334 | Developmental Biology |  |
| BIOL 335 | Advanced Topics in Evolutionary Biology |  |
| BIOL 339 | Microbiology |  |
| BIOL 340 | Microbiology (Lab) |  |
| BIOL 360 | Virology |  |
| BIOL 388 | Epigenetics |  |
| BIOL 389 | Epigenetics (Lab) |  |
| NEUR 208 | Neurobiology |  |
| NEUR 351 | Experimental Neurobiology (Lab) |  |
| Total Semester Hours |  | 44 |

## Code <br> Title

## Semester

Hours

## Additional Requirements

A comprehensive examination

[^0]
## Required for a B.S. (but not for a B.A.) in Biology

| Code | Title | Semester <br> Hours |
| :--- | :---: | ---: | :--- |
| Course Requirements |  | 16 |
| Select four additional courses in mathematics, statistics, or science outside biology, including at least two lab science courses |  | 16 |
| Total Semester Hours | 16 |  |


[^0]:    I Courses numbered below I3O do not count toward the major.
    2 At least four of the required and elective biology courses must have a laboratory.
    3 The Department of Biology will allow an AP test score of 5 or a higher level IB test score of 6 or 7 to substitute for BIOL 133 . Students should be advised that mastery of the material covered in BIOL I33 is important as majors will be tested on it during their comprehensive exams.
    4 Students may only receive credit once for courses delivered as both lab and non-lab offerings.

