## MOLECULAR BIOLOGY COMPREHENSIVE, BACHELOR OF SCIENCE

Offered by Department of Biology

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### General Studies

**Foundational Core (Written, Math, Oral, Democracy)**

- Foundational Core courses
- Including:
  - MATH 102 College Algebra

**Portal**

- Select one course numbered 188

### Distribution

**ENG 101** Introduction of Academic Writing

- If ENG 101 is not taken as a prerequisite for ENG 102 then additional hours may be required to meet the 27 credit hour minimum in the Distribution Area of General Studies.

**Aesthetics**

- Humanities
- Social Sciences
- Natural Sciences

**Analytical and Quantitative Thought**

**Wellness**

**Capstone**

- Select one course numbered 388

### BS Science-related course requirements

**CHEM 160** General Chemistry
- CHEM 160L General Chemistry Laboratory

### Major Option

- Complete all required courses

### Major Option

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### Molecular Biology Comprehensive Core Requirements

- BIOL 106 Biology II
- BIOL 231 Research Methods I
- BIOL 290 Evolution
- BIOL 309 Cellular Biology
- BIOL 360 Genetics
- BIOL 450 Molecular Biology
- BIOL 452 Techniques in Molecular Biology
- BIOL 431 Research Methods II
- BIOL 482 Seminar in Molecular Biology

### Biology Comprehensive Supporting Course Requirements

- Select one of the following options:
  - CHEM 250 & 250L Elementary Organic Chemistry and Elementary Organic Chemistry Lab
  - CHEM 360 & 360L Organic Chemistry and Organic Chemistry Laboratory
  - CHEM 361 & 361L Organic Chemistry and Organic Chemistry Laboratory
  - CHEM 351 Biochemistry
  - CHEM 351L Biochemistry Lab

- Select one of the following:
  - MATH 115 Calculus I with Analytic Geometry
  - MATH 123 Applied Calculus I

- Select 9-12 credit hours of the following:
  - BIOL 305 BioStatistics
  - BIOL 311 Bioethics
  - BIOL 325 Medical Terminology
  - BIOL 401 Principles of Immunology
  - BIOL 404 Developmental Biology
  - BIOL 440 Infectious Diseases
  - BIOL 461 Human Genetics
  - BIOL 465 Physiology
  - CHEM 352 Biochemistry II
  - CHEM 352L Biochemistry II Lab

### Total Credit Hours

- 49-59

### Note

The Molecular Biology degree requires a minimal mathematical competency at the level of calculus. Students with sufficient preparation may enter the mathematics program at a higher level, reducing the total credit hours needed. See advisor for math placement.

A minimum 2.5 GPA is required in all courses counting toward this major.

Total Credit Hours: 120