# MOLECULAR BIOLOGY COMPREHENSIVE, BACHELOR OF SCIENCE

Offered by Department of Biology (http://catalog.unk.edu/undergraduate/departments-programs/biology)

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<th>Code</th>
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## General Studies

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

- Foundational Core courses (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses)  12
  - **MATH 102** College Algebra  1

**Portal**

- Select one course numbered 188 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course)  3

**Distribution**

- **ENG 101** Introduction of Academic Writing  3
  - *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** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics)  3
- **Humanities** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities)  6
- **Social Sciences** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences)  6
- **Natural Sciences** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences)  9
  - *Including:*
    - **BIOL 105** Biology I
    - **PHYS 205** General Physics I
    - **PHYS 205L** Physics I Laboratory

**Analytical and Quantitative Thought** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought)  0

**Wellness** (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness)  0

**Capstone**

- Select one course numbered 388 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course)  3

## BS Science-related course requirements

- **CHEM 160** General Chemistry  3
- **CHEM 160L** General Chemistry Laboratory  1
- **CHEM 161** General Chemistry  3
- **CHEM 161L** General Chemistry Laboratory  1

## Major Option

Complete all required courses  47-57

## Unrestricted electives

Needed to reach 120 credit hour minimum  10-20

Total Credit Hours  120

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

## Major Option

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### Molecular Biology Comprehensive Core Requirements

- **Biol 106** Biology II  4
- **Biol 231** Research Methods I  3
- **Biol 290** Evolution  3
- **Biol 309** Cellular & Molecular Biology  4
- **Biol 360** Genetics  4
- **Biol 450** Advanced Molecular Biology  4
- **Biol 431** Research Methods II  2
- **Biol 482** Seminar in Molecular Biology  2

### Biology Comprehensive Supporting Course Requirements

Select one of the following options:  5-10

- **Chem 250** Elementary Organic Chemistry & 250L and Elementary Organic Chemistry Lab
- or
- **Chem 360** Organic Chemistry & 360L and Organic Chemistry Laboratory & **Chem 361** and Organic Chemistry & **Chem 361L** and Organic Chemistry Laboratory
- **Chem 351** Biochemistry  3
- **Chem 351L** Biochemistry Lab  1
  - Select one of the following:  3-5
    - **Math 115** Calculus I with Analytic Geometry
    - **Math 123** Applied Calculus I
  - Select 9-12 credit hours of the following:  9-12
    - **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  47-57

1 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.