### Molecular Biology Comprehensive, Bachelor of Science

Offered by Department of Biology (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/departments-programs/biology)

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#### General Studies

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

Foundational Core courses (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses)

- Including: MATH 102 College Algebra

**Portal**

Select one course numbered 188 (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/portal-course)

**Distribution**

- Aesthetics (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/aesthetics)
- Humanities (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/humanities)
- Social Sciences (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/social-sciences)
- Natural Sciences (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/natural-sciences)

- Including: BIOL 105 Biology I, PHYS 205 General Physics I, PHYS 205L Physics I Laboratory

**Analytical and Quantitative Thought**

Select 2 credit hours of one of the following:

- BIOL 421 Seminar in Biology
- BIOL 431 Research Methods II

**Wellness**

Select 2 credit hours of the following:

- 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 Laboratory
- CHEM 360 & 360L Organic Chemistry Laboratory and Organic Chemistry Laboratory & CHEM 361 & CHEM 361L Organic Chemistry Laboratory 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

**BS Science-related course requirements**

- CHEM 160 General Chemistry
- CHEM 160L General Chemistry Laboratory
- CHEM 161 General Chemistry
- CHEM 161L General Chemistry Laboratory

**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
- 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

Select 2 credit hours of the following:

- BIOL 421 Seminar in Biology
- BIOL 431 Research Methods II

**Capstone**

Select one course numbered 388 (http://catalog.unk.edu/catalog-archive/2017-2018/undergraduate/general-studies/general-studies-courses/capstone-course)

**Unrestricted electives**

Needed to reach 120 credit hour minimum

**Total Credit Hours**

- 49-59

- Complete all required courses
- 49
- Unrestricted electives
- 18
- Needed to reach 120 credit hour minimum
- 18
- Total Credit Hours
- 120
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.