

BIOLOGY, BACHELOR OF ARTS

To obtain a BA with a major in Biology, a student must fulfill university, college, and departmental requirements.

Biology, Bachelor of Arts Requirements

Code	Title	Credits
GENERAL EDUCATION REQUIREMENTS - 34 Hours Required		
Minimum of "C-" required		
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communication – 3 hrs.		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
Quantitative Literacy – 3 hrs.		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3 hrs.		
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.		
Breadth of Knowledge		13
Social Science – 3 hrs.		
Humanities – 3 hrs.		
Natural & Physical Science (must complete a lab) – 4 hrs.		
Arts – 3 hrs.		
Individual and Social Responsibility		6
Cultural Knowledge – 3 hrs.		
Civic Knowledge and Engagement – 3 hrs.		
Major Requirements - 61-71 Hours Required		
**Course will satisfy UNO's General Education requirement		
^Course requires pre-requisite(s)		
Required Biology Coursework:		18
BIOL 1450	BIOLOGY I (**)	
BIOL 1750	BIOLOGY II (^)	
BIOL 2140	GENETICS (^)	
BIOL 3340	ECOLOGY (^)	
Additional Biology Coursework - 18 Hours Required		18

The remaining 18 credits in biology should be chosen in consultation with a biology advisor and must include at least 14 credits from BIOL 3000-4000 level courses, including at least one lab course (in addition to BIOL 3340). Up to three credits of BIOL 4030, up to three credits of either BIOL 4050 or BIOL 4800 and one credit of BIOL 4040 can be included. BIOL 3150 may not be used to satisfy the requirement for 3000-4000 level biology credits. Courses at the 1000-2000 level are restricted to BIOL 2440, BIOL 2740, and BIOL 2840.

Required Chemistry Coursework 14-16

Select one of the following sequences in Chemistry

Sequence 1	
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (**^)
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)
Sequence 2	
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)
CHEM 2250	ORGANIC CHEMISTRY I (^)
CHEM 2260	ORGANIC CHEMISTRY II (^)
CHEM 2274	ORGANIC CHEMISTRY LABORATORY (^)
Sequence 3	
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)

Required Physics Coursework 5-10

Select one of the following Sequences in Physics:

Sequence 1	
PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (** ^)
Sequence 2	
PHYS 1110 & PHYS 1154	PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)
PHYS 1120 & PHYS 1164	PHYSICS FOR LIFE SCIENCE II and GENERAL PHYSICS LABORATORY II (^)
Sequence 3	

PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I (** ^)
PHYS 2120 & PHYS 1164	GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)

Select one of the following courses in Mathematics or Computer Science **3-5**

MATH 1300	COLLEGE ALGEBRA WITH SUPPORT (**)
MATH 1320	COLLEGE ALGEBRA (^)
MATH 1330	TRIGONOMETRY (^)
MATH 1340	ALGEBRA AND TRIGONOMETRY FOR CALCULUS (^)
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (^)
MATH 1940	CALCULUS FOR BIOMEDICINE (^)
MATH 1950	CALCULUS I (^)
CSCI 1200	COMPUTER SCIENCE PRINCIPLES (** ^)
CSCI 1620	INTRODUCTION TO COMPUTER SCIENCE II (^)
CIST 1400	INTRODUCTION TO COMPUTER SCIENCE I (^)

Select one of the following courses in Statistics **3-4**

BIOL 2020	STATISTICS FOR LIFE AND ENVIRONMENTAL SCIENCE (^)
PSYC 3130	STATISTICS FOR THE BEHAVIORAL SCIENCES (^)
SOC 2130	SOCIAL STATISTICS (^)
STAT 3000	STATISTICAL METHODS I (^)

College Breadth (choose one option) **15-30+**

Option 1: Complete any UNO minor or undergraduate certificate - 15+ Hours

Option 2: Additional General Education Requirements - 18+ Hours

Additional quantitative literacy - 3 hours
Additional Social Science Gen. Ed. from another Discipline - 3 hours
Additional Humanities Gen. Ed. from another Discipline - 3 hours
HIST 1000 and HIST 1010 - 6 hours
Additional Nat. and Physical Science w/ or without Lab - 3-5 hours

Option 3: CAS comprehensive major (50+ hours) OR any second UNO major (30+ hours)

Bachelor Arts Language Requirements **16**

FREN, GERM, Or SPAN, 1110, 1120, 2110, 2120

Electives

Elective hours as required to reach a total of 120 hours

MATH 1120 or MATH 1130 or MATH 1140 or MATH 1300	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING or QUANTITATIVE LITERACY or QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS or COLLEGE ALGEBRA WITH SUPPORT	3-4
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BIOL 1450	BIOLOGY I (***)	5
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Attend Durango Days; other campus events. Set up a Handshake account and take the Pathway U career assessment. Attend the Student Involvement & Volunteer Fair to explore student organizations. Make advising appointment for spring: Sept-Oct. Work with your advisor to develop your Pathway in Stellic.

Credits		14-15
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Spring

ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
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PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (*)	5
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BIOL 1750	BIOLOGY II	5
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General Education Course or Elective		3
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*There are other options for this major requirement – make sure you talk with an advisor before planning to take this class. Alternatively, students may take PHYS 1110 & PHYS 1154 followed by PHYS 1120 & PHYS 1164. This class also satisfies the 2nd Natural and Physical Science General Education requirement.

Attend campus events such as major exploration week to get an idea of interests and career paths. Schedule a resume review with UNO Career Services. Visit faculty office hours and ask about undergraduate research opportunities. Make advising appointment for summer and fall: February – March.

Credits		16
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Sophomore

Fall

CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (*)	5
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World Language 1110		5
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General Education Course or Elective		3
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General Education Course or Elective		3
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*CHEM 1140: Concurrent enrollment in CHEM 1144 required. There are other chemistry sequence options to complete this requirement—consult with an advisor before planning to take this class.

Attend the Career & Internship Fair to start networking with employers. Look for volunteer, research, or part-time work to gain experience. Join a student organization or club related to your field or interests. Make advising appointment for spring: Sept. - Oct.

Credits		16
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Spring

CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (*)	5
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BIOL 2140	GENETICS	4
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World Language course 1120		5
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Biology, Bachelor of Arts Four Year Plan

Freshman

Fall		Credits
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ENGL 1150	ENGLISH COMPOSITION I	3
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CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
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*CHEM 2210: CHEM 2214 to be taken concurrently. Please refer to your advisor or the catalog for other Chemistry options.

Attend a career fair for informational and networking purposes. Update your resume and LinkedIn profile with new experiences. Investigate and apply for summer internships, research, or study abroad programs. Make advising appointment for summer and fall: February – March.

Credits		14
Junior		
Fall		
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (*)	4
BIOL 3340	ECOLOGY	4
World Language Course 2110		3
Elective		3

*CHEM 3650: CHEM 3654 to be taken concurrently. Please refer to your advisor and the catalog for other Chemistry options.

Apply for a paid internship or research assistantship. Attend a mock interview workshop or use online interview tools with Career Services. Start researching and visiting graduate programs or professional schools. Visit Career Center, continue updating resume. Make advising appointment for spring: Sept-Oct.

Credits		14
Spring		
Lower or Upper-Level BIOL Course		3-4
Upper-Level BIOL Course no Lab*		3
Approved Statistics Course (see catalog)		3
World Language 2120		3
General Education Course or Elective		3

*BIOL Courses- Lower-level options can include only one from: BIOL 2440, BIOL 2740, or BIOL 2840. Upper-level options cannot include BIOL 3150. For upper-level BIOL elective options and restrictions, please refer to the Catalog or curriculum guide from the Biology advisors.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

Credits		15-16
Senior		
Fall		
Upper-Level BIOL Course with Lab*		4
Upper-Level BIOL Course no Lab*		3
General Education Course or Elective		3
Elective		3
Elective		3

*Upper-Level BIOL Courses cannot include BIOL 3150. See Catalog or curriculum guide from Biology advisors for upper-level biology course list and restrictions.

Check in with Career Center for networking tips. Finalize graduate school applications or job search strategy. Attend a career fair and start applying for full-time jobs. Prepare for interviews and salary negotiations with Career Services. Make advising appointment for spring: Sept. - Oct.

Credits		16
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Spring

Upper-Level BIOL Course no Lab *	3
Upper-Level BIOL Course no Lab *	3
Elective	3
Elective	3
Elective	3

*Upper-Level BIOL Courses cannot include BIOL 3150. See Catalog or curriculum guide from Biology advisors for upper-level biology course list and restrictions.

Request letters of recommendation from faculty for jobs or grad school. Attend the All-Majors Career Fair with a plan to network. Meet with your advisor or submit for a graduation check-in to review remaining degree requirements. Make advising appointment for summer and fall: February – March.

Credits		15
Total Credits		120-122

College Breadth: Students should plan on using at least 15 hours of "Electives" to fulfill Option 1, 2, or 3, of the College of Arts and Sciences' breadth requirement.

Upper Level Credits: Students need 27 upper level credits throughout the degree with at least 18 upper level credits within the major. Electives may need to be selected at the 3000-4000 level to reach these minimums.

Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year.

Placement Exams: For Math, English, World Language, a placement exam may be required. More information on these exams can be found at <https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php>

Transfer credit or placement exam scores may change suggested plan of study.

GPA Requirements: 2.0

Note: This plan provides a general guide, but your specific courses, experiences, and career goals may differ. Work with your academic advisor to ensure you're meeting degree requirements and consult with career advisors to explore internships, research opportunities, and post-graduation plans. Regular check-ins will help you stay on track and make the most of your time at UNO!