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

Requirem	ents	
Code	Title	Credits
	ON REQUIREMENTS - 46 Hours	
Required		
Minimum of "C-" requ		
Fundamental Acad	emic Skills	15
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	ENGLISH COMPOSITION II	
Writing in the Disc	ipline Course	
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1100	DATA LITERACY AND VISUALIZATION	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCAF PROFESSIONALS	RE
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
or STAT 1100	DATA LITERACY AND VISUALIZATION	
or STAT 1530	ELEMENTARY STATISTICS	
Distribution Requir	rements	31
Natural Science - F 7 hrs	rom two disciplines and at least one lab -	
Social Science - fro	m two disciplines - 9 hrs	
Humanities and Fi	ne Arts - From two disciplines - 9 hrs	
Global Diversity - 3	hrs	
US Diversity 3 hrs		
Major Requirement	ts - 61-71 Hours Required	
	JNO's General Education requirement	
^Course requires pre-	·	
Required Biology C	,	18
BIOL 1450	BIOLOGY I (**)	
BIOL 1750	BIOLOGY II (^)	
BIOL 2140	GENETICS (^)	
BIOL 3340	ECOLOGY (^)	
	Coursework - 18 Hours Required	18
	dits in biology should be chosen in	10
consultation with a bi 14 credits from BIOL one lab course (in add BIOL 4030, up to thre and one credit of BIO not be used to satisfy	iology advisor and must include at least 3000-4000 level courses, including at least dition to BIOL 3340). Up to three credits of e credits of either BIOL 4050 or BIOL 4800 L 4040 can be included. BIOL 3150 may the requirement for 3000-4000 level ses at the 1000-2000 level are restricted to	
Required Chemistr	y Coursework	14-16
-	llowing sequences in Chemistry	
C 1	J ,	

Sequence 1

CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY	
	and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY	
G GILW 2214	and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)	
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF	
a Citely 3034	BIOCHEMISTRY LABORATORY (^)	
Sequence 2		
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)	
CHEM 1190	GENERAL CHEMISTRY II	
& CHEM 1194	and GENERAL CHEMISTRY II LABORATORY (^)	
CHEM 2250	ORGANIC CHEMISTRY I (^)	
CHEM 2260	ORGANIC CHEMISTRY II (^)	
CHEM 2274	ORGANIC CHEMISTRY LABORATORY (^)	
Sequence 3		
CHEM 1180	GENERAL CHEMISTRY I	
& CHEM 1184	and GENERAL CHEMISTRY I LABORATORY (** ^)	
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II	
& CHEWI 1194	and GENERAL CHEMISTRY II LABORATORY (^)	
CHEM 2210	FUNDAMENTALS OF ORGANIC	
& CHEM 2214	CHEMISTRY	
	and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (^)	
CHEM 3650	FUNDAMENTALS OF BIOCHEMISTRY	
& CHEM 3654	and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)	
Required Physics C	. ,	5-10
	llowing Sequences in Physics:	
Sequence 1		
PHYS 1050	INTRODUCTION TO PHYSICS	
& PHYS 1054	and INTRODUCTION TO PHYSICS LABORATORY (** ^)	
Sequence 2		
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I (**^)	
PHYS 1120	GENERAL PHYSICS II	
& PHYS 1164	and GENERAL PHYSICS LABORATORY II (^)	
Sequence 3		
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL	
& PHYS 1154	and GENERAL PHYSICS LABORATORY I (**^)	
PHYS 2120 & PHYS 1164	GENERAL PHYSICS-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)	
Select one of the fo Computer Science	llowing courses in Mathematics or	3-5
MATH 1300	COLLEGE ALGEBRA WITH SUPPORT (**)	
MATH 1320	PRE-CALCULUS 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 1	200	COMPUTER SCIENCE PRINCIPLES (** ^)	
CSCI 1	620	INTRODUCTION TO COMPUTER SCIENCE II (^)	
CIST 14	400	INTRODUCTION TO COMPUTER SCIENCE I (^)	
Select or	ne of the fo	llowing courses in Statistics	3-4
STAT 3	000	STATISTICAL METHODS I (^)	
PSYC 3	130	STATISTICS FOR THE BEHAVIORAL SCIENCES (^)	
SOC 2	130	SOCIAL STATISTICS (^)	
College Breadth (choose one option)			
College I	Breadth (ch	noose one option)	15-30 +
Option 1:	•	ny UNO minor or undergraduate	15-30+
Option 1: certificate	Complete a e - 15+ Hours	ny UNO minor or undergraduate	15-30+
Option 1: certificate Option 2: Hours	Complete a e - 15+ Hours Additional G	ny UNO minor or undergraduate s	15-30+
Option 1: certificate Option 2: Hours	Complete and 15+ Hours Additional Conal quantite	ny UNO minor or undergraduate s General Education Requirements - 19+	15-30+
Option 1: certificate Option 2: Hours Addition Addition	Complete and a 15+ Hours Additional Conal quantite Conal Social S	ny UNO minor or undergraduate s General Education Requirements - 19+ ative literacy - 3 hours	15-30+
Option 1: certificate Option 2: Hours Addition hours Addition	Complete ai e - 15+ Hours Additional Conal quantite onal Social S	ny UNO minor or undergraduate s General Education Requirements - 19+ ative literacy - 3 hours cience Gen. Ed. from 3rd Discipline - 3	15-30+
Option 1: certificate Option 2: Hours Addition hours Addition HIST 10	Complete and a 15+ Hours Additional Gonal quantite and Social Social Social Humani 000 and HIS	ny UNO minor or undergraduate Seneral Education Requirements - 19+ ative literacy - 3 hours cience Gen. Ed. from 3rd Discipline - 3 hours	15-30+
Option 1: certificate Option 2: Hours Addition hours Addition HIST 10 Addition Option 3:	Complete and a 15+ Hours Additional Gonal quantite and Social Social Social Humani and Humani and Humani and Humani	ny UNO minor or undergraduate Seneral Education Requirements - 19+ Artive literacy - 3 hours cience Gen. Ed. from 3rd Discipline - 3 ties Gen. Ed. from 3rd Discipline - 3 hours T 1010 - 6 hours d Physical Science w/ Lab - 4-5 hours Schensive major (50+ hours) OR any second	15-30+
Option 1: certificate Option 2: Hours Addition hours Addition HIST 10 Addition Option 3: UNO major	Complete and a second s	ny UNO minor or undergraduate Seneral Education Requirements - 19+ Artive literacy - 3 hours cience Gen. Ed. from 3rd Discipline - 3 ties Gen. Ed. from 3rd Discipline - 3 hours T 1010 - 6 hours d Physical Science w/ Lab - 4-5 hours Schensive major (50+ hours) OR any second	15-30+

Biology, Bachelor of Arts Four Year Plan

Elective hours as required to reach a total of 120 hours

Freshman

Electives

Credits
COMPOSITION I (*)
EAKING FUNDS 3 UMENTATION AND DEBATE
ALGEBRA (**) 3-4 LEGE ALGEBRA WITH SUPPORT
(***) 5
ent via EPPE, ACT, or AP.
oriate placement. Higher levels e see your advisor for options.
ural & Physical Science Lecture ajor requirement.
i i

	Credits	14-15
Spring		
ENGL 1160	ENGLISH COMPOSITION II (*)	3
PHYS 1050 & PHYS 1054	INTRODUCTION TO PHYSICS and INTRODUCTION TO PHYSICS LABORATORY (**)	5
BIOL 1750	BIOLOGY II	5
Humanities and Fine Arts		3

*ENGL 1160: requires ENGL 1150 with grade of C- or higher or placement via EPPE or AP.

**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.

16 **Credits** Sophomore Fall **CHEM 1140 FUNDAMENTALS OF COLLEGE** 5 & CHEM 1144 **CHEMISTRY** and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (*) Foreign Language 1110** 5 3 **Humanities and Fine Arts** Social Science with US Diversity 3 *CHEM 1140: Requires MATH 1220 (or MATH 1300) or

*CHEM 1140: Requires MATH 1220 (or MATH 1300) or higher. ACT, SAT, AP or Math Placement Exam scores may substitute for the Math prereq to Chemistry 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.

**Level 1110 foreign language courses count as a Humanity/ Fine Arts course, Global Diversity, and toward the student's BA requirement. If student is fulfilling the BA requirement via alternative methods, then 16 additional credits including a HFA and Global Diversity will need to be factored in to this degree plan.

	Credits	16
Spring		
CHEM 2210 & CHEM 2214	FUNDAMENTALS OF ORGANIC CHEMISTRY	5
G GILW 2214	and FUNDAMENTALS OF ORGANIC CHEMISTRY LABORATORY (*)	
BIOL 2140	GENETICS (**)	4
Foreign Language course 1120		5
CHEM 1190 & 0 with a C- or bet	equires CHEM 1140 & CHEM 1144 or CHEM 1194, either of which must be earned ter. CHEM 2214 to be taken concurrently. Your advisor or the catalog for other ons.	
**BIOL 2140: re	quires BIOL 1450 and 1750, as well as	

	Credits	14
Junior		
Fall		
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (*)	4
BIOL 3340	ECOLOGY (**)	4
Foreign Language Course 2110		3
Elective(***)		3
*CHEM 3650: re	equires CHEM 2210 & CHEM 2214 or	

*CHEM 3650: requires CHEM 2210 & CHEM 2214 or CHEM 2260 & CHEM 2274, either of which must be earned with a grade of C- or better. CHEM 3654 to be taken concurrently. Please refer to your advisor and the catalog for other Chemistry options.

CHEM 1140 or 1180.

**BIOL 3340: requires BIOL 1450 and 1750; junior-senior standing or graduate student.

***A minimum of 27 upper-level credits is required in the overall degree, with at least 18 upper-level credits within the major. Depending on options selected throughout degree, upper-level electives may be needed in order to reach this minimum credit requirement.

Credits	14
Spring	
Lower or Upper-Level BIOL Elective*	3-4
Upper-Level BIOL Elective no Lab*	3
Statistics Course**	3
Foreign Language 2120	3
Social Science	3
*BIOL Electives- 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.	
**Approved Statistics Courses: BIOL 4110, STAT 3000, PSYC 3130, SOC 2130. Placement is required.	
Credits	15-16

Jellioi

Fall

Upper-Level BIOL Elective with Lab*	4
Upper-Level BIOL Elective no Lab*	3
Social Science Course**	3
Additional Humanities/Fine Arts Course for A&S or Course towards Minor/2nd Major***	3
HIST 1000 or Minor/2nd Major Course#	3
*Upper-Level BIOL Electives cannot include BIOL 3150. See	

- Catalog or curriculum guide from Biology advisors for upperlevel biology course list and restrictions.
- **Social Science course must be in a 2nd discipline
- ***A&S College Requirement Options. Additional HFA course must be in a 3rd discipline.
- #A&S College Requirement Options.

Credits	
Spring	
Upper-Level BIOL Elective no Lab (*) w	3
Upper-Level BIOL Elective no Lab (*) w	3
Additional Social Science Course for A&S or Course towards Minor/2nd Major**	3
HIST 1010 or Minor/2nd Major Course***	3
Elective (#)	3
*Upper-Level BIOL Electives cannot include BIOL 3150. See	

- Catalog or curriculum guide from Biology advisors for upperlevel biology course list and restrictions.
- *w Meets Advanced Writing requirement: see curriculum guide from Biology advisors for list of writing-approved courses.
- **A&S College Requirement Options. Additional Social Science course must be in a 3rd discipline.
- ***A&S College Requirement Options.

#Students must have at least 120 total credits with at least 27 upper-level credits throughout their A&S degree. A minimum of 18 upper-level credits is required within their major. Depending on options selected throughout degree, upper-level electives may be needed in order to reach this minimum credit requirement.

Credits 15

Total Credits 120-122

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change.

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, Foreign 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