GENERAL SCIENCE, BACHELOR OF SCIENCE

General Science, Bachelor of Science Requirements

Code		redits
GENERAL EDUCATION Required	ON REQUIREMENTS - 46 Hours	
Minimum of "C-"requ	ired	
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 HEALTHCAR PROFESSIONALS	E
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 - Fra	om two disciplines - 9 hrs	
Humanities and Fi	ne Arts - From two disciplines- 9 hrs	
Global Diversity - 3	hrs	
US Diversity - 3 hrs	•	
MAJOR REQUIRI	MENTS	
**Course will satisfy \	JNO's General Education requirement	
^Course requires pre-	requisite(s)	
General Science - 4	9-50 Hours Required	
Required Coursewo	ork	22
BIOL 1450	BIOLOGY I (**)	
BIOL 1750	BIOLOGY II	
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (**)	
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (^)	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	
Select one of the fo	llowing (PHYS) Physics Options	10
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I (**)	
PHYS 1120 & PHYS 1164	GENERAL PHYSICS II and GENERAL PHYSICS LABORATORY II	
OR		

GENERAL PHYSICS I - CALCULUS LEVEL

and GENERAL PHYSICS LABORATORY I

PHYS 2110

& PHYS 1154

(^)

PHYS 2120 & PHYS 1164	GENERAL PHYSICS-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II (^)	
Mathematics and option	Statistics Requirement - choose one	5-6
Option 1 - select of	one of the following calculus courses:	
MATH 1950	CALCULUS I (^)	
MATH 1940	CALCULUS FOR BIOMEDICINE (^)	
OR Option 2 - take b	oth of the following courses:	
MATH 1930	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES	
AND one advisor-	approved STATISTICS course	
Select 12 additional credits of 2000-level coursework from at least two of the following subjects: Biology, Chemistry, Geology, and Physics.		
College Breadth (d	choose one option)	15-30 +
Option 1: Complete o certificate - 15+ hou	any UNO minor or undergraduate rs	
Option 2: Additional hours	General Education Requirements - 19+	
Additional quanti	tative literacy - 3 hours	
Additional Social	Science Gen. Ed. from 3rd Discipline - 3	
Additional Humar	nities Gen. Ed. from 3rd Discipline - 3 hours	
HIST 1000 and HI	ST 1010 - 6 hours	
Additional Nat. a	nd Physical Science w/ Lab - 4-5 hours	
Option 3: CAS comp UNO major (30+ hou	rehensive major (50+ hours) OR any second urs)	
Bachelor of Science	ce Cognate Requirement	15
15 hours of cogno outside of their m career aspirations	S. degree program are required to complete ate coursework, a field of specialization ajor based on their interests and/or s. Cognates are designed by the student in the undergraduate adviser.	

ELECTIVES

Elective hours as required to reach a total of 120 hours

General Science, Bachelor of Science Concentrations

 Medical Laboratory Science Concentration (http:// catalog.unomaha.edu/undergraduate/college-arts-sciences/general-science/general-science-bs/medical-lab-science-conc/)

General Science, Bachelor of Science Four Year Plan

Freshman

	Fall		Credits
	BIOL 1450	BIOLOGY I (*)	5
	ENGL 1150	ENGLISH COMPOSITION I (**)	3
	MATH 1930 or MATH 1940 or MATH 1950	CALCULUS FOR THE MANAGERIAL, LIFE, AND SOCIAL SCIENCES (***) or CALCULUS FOR BIOMEDICINE or CALCULUS I	3-5
Humanities and Eine Arts		Auto	2

*BIOL 1450: Requires high school biology and chemistry. College level chemistry recommended. This course will count as a Natural & Physical Science Lecture/Lab course as well as major requirement. ***MATH 1930 or MATH 1940: Requires MATH 1300, 1320, or higher with minimum grade of C-, or Math ACT sub-score of 25, or appropriate Math Placement Exam score within the last two years. If taking MATH 1950 as an alternative, it will require MATH 1300/1320 + MATH 1330 OR MATH 1340 (minimum grade of C-) OR proper placement via ACT Math sub-score or Math Placement Exam within the last two years. MATH 19301940/1950 are higher than the general education Math/QL requirement, so would count as that and the College of Arts and Sciences QL requirement for the Add'l Gen Eds, in addition to counting as a calculus course for the major. Please know that this major requires EITHER MATH 1930 + STAT 1530 OR MATH 1940/1950. If taking MATH 1930, students will also need to take STAT 1530 (or approved alternative) for this major. Taking MATH 1940 or 1950 will not require students to also take STAT 1530 for this major.

*** MATH 1930 or MATH 1940: Requires MATH 1300, 1320, or higher with minimum grade of C-, or Math ACT sub-score of 25, or appropriate Math Placement Exam score within the last two years. If taking MATH 1950 as an alternative, MATH 1300/1320 + MATH 1330 OR MATH 1340 (minimum grade of C-) OR proper placement via ACT Math sub-score within the last two years will be required. This course is higher than the general education Math/QL requirement, so would count as that and the College of Arts and Sciences QL requirement for the Add'l Gen Eds, in addition to counting as a calculus course for the major. If taking MATH 1930, students will also need to take STAT 1530 (or approved alternative) for this major. Taking MATH 1940 or 1950 will not require students to also take STAT 1530 for this major.

	Credits	14-16
Spring		
BIOL 1750	BIOLOGY II (*)	5
ENGL 1160	ENGLISH COMPOSITION II (**)	3
STAT 1530	ELEMENTARY STATISTICS (***)	3
Social Science		3

*BIOL 1750: Requires BIOL 1450. This course counts as the A&S Add'l Gen Ed Natural & Physical Science Lec/Lab in addition to being a major requirement.

**ENGL 1160: Requires ENGL 1150 or appropriate placement via EPPE, AP scores or transfer credit.

***STAT 1530: Requires MATH 1210 or higher, a Math ACT sub-score of 19+, or appropriate Math Placement Exam score within the last two years. Students do not need to take STAT 1530 if MATH 1940 or MATH 1950 are chosen for the major's calculus requirement. If taking MATH 1940 or 1950, replace STAT 1530 this semester with another course from a later semester, chosen in consultation with your advisor.

	Credits	14
Sophomore		
Fall		
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
PHYS 1110 & PHYS 1154	GENERAL PHYSICS I and GENERAL PHYSICS LABORATORY I (*)	5
Social Science		3
Humanities and Fine	e Arts/US Diversity	3

*PHYS 1110: Requires MATH 1220, Math 1300 or higher. Also acceptable: Math ACT sub-score of 23+, or appropriate Math Placement Exam score. This course counts as the 2nd Natural & Physical Science gen ed. Taking PHYS 1154 is also required for the major.

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	Credits	14
Spring		
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
PHYS 1120	GENERAL PHYSICS II	5
& PHYS 1164	and GENERAL PHYSICS LABORATORY II (*)	
Social Science/Global	Diversity**	3
Humanities and Fine A	Arts***	3
*PHYS 1120: Requir	res PHYS 1110	
**Social Science mu	ust come from a 2nd discipline.	
***Humanities and	Fine Arts course must come from a 2nd	
discipline.		
	Credits	15
Junior		
Fall		
CHEM 1180	GENERAL CHEMISTRY I	4
& CHEM 1184	and GENERAL CHEMISTRY I	
	LABORATORY (*)	-
ENGL 3980	TECHNICAL WRITING ACROSS THE DISCIPLINES (**)	3
HIST 1000 or Course t	owards Minor/2nd Major***	3
Advanced General Sci	ence Elective [^]	3
BS Cognate Course#		3
	he catalog for the most up-to-date	
prerequisites. Must	take CHEM 1184 concurrently.	
**ENGL 3980: Requires ENGL 1160 or appropriate placement via EPPE, AP scores or transfer credit.		
***A&S College Rec	uirement Options.	
^Advanced General Science Electives: 12 credits minimum needed from at least 2 disciplines between BIOL, CHEM, GEOL, & PHYS. Must be at the 2000 level or higher.		
#15 credits minimum of Cognate courses needed. Cognate courses should be selected in consultation with your advisor. Ideally, courses are upper-level, to help you reach the 27 credit upper level minimum throughout the degree.		
	Credits	16
Spring		
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LABORATORY (*)	4
HIST 1010 or Minor/2nd Major Course**		3
Advanced General Sci	ence Elective***	3
BS Cognate Course^		3
BS Cognate Course [^] 3		
*CHEM 1190: See the catalog for the most up-to-date		

prerequisites. Must take CHEM 1194 concurrently.

***Advanced General Science Electives: 12 credits minimum needed from at least 2 disciplines between BIOL, CHEM, GEOL, & PHYS. Must be at the 2000 level or higher.

15 credits minimum of Cognate courses needed. Cognate courses should be selected in consultation with your advisor. Ideally, courses are upper-level, to help you reach the 27 credit upper level minimum throughout the degree.

**A&S College Requirement Options

Credits 16

Senior

Fall

Advanced General Science Elective*	3
Additional Humanities and Fine Arts Course for A&S or Course towards Minor/2nd Major**	3
Additional Social Science Course for A&S or Course towards Minor/2nd Major***	3
BS Cognate Course^	3
BS Cognate Course [^]	3
*Advanced General Science Electives: 12 credits minimum	

- *Advanced General Science Electives: 12 credits minimum needed from at least 2 disciplines between BIOL, CHEM, GEOL, & PHYS. Must be at the 2000 level or higher.
- $^{\star\star}\text{A\&S}$ College Requirement Options. Additional HFA must be in a 3rd discipline.
- ***A&S College Requirement Options. Additional SS must be in a 3rd discipline.
- ^15 credits minimum of Cognate courses needed. Cognate courses should be selected in consultation with your advisor. Ideally, courses are upper-level, to help you reach the 27 credit upper level minimum throughout the degree.

Cr	edits	15
Spring		
Advanced General Science	e Elective*	3
Elective or Minor/2nd Ma	or Course**	3
Elective or Minor/2nd Ma	or Course**	3
Elective or Minor/2nd Ma	or Course**	3
Elective or Minor/2nd Ma	or Course**	3
Elective or Minor/2nd Ma	or Course**	1
needed from at least 2	ence Electives: 12 credits minimum disciplines between BIOL, CHEM, e at the 2000 level or higher.	

**Students must have a minimum of 120 credits to graduate
and at least 27 credits 3000/4000 level coursework
throughout the degree. Utilize electives to reach these
minimums.

Credits	16
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