CHEMISTRY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN MEDICINAL CHEMISTRY

To obtain a B.S. with a major in Chemistry and a concentration in Medicinal Chemistry, a student must fulfill university, college, and departmental requirements.

Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry Requirements

Kequirem	ents	
Code	Title	Credits
GENERAL EDUCATION	ON REQUIREMENTS - 34 Hours	
Required		
Minimum of "C-"requ		
Fundamental Skills		15
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communica	ition – 3 hrs.	
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
Quantitative Lite	eracy – 3 hrs.	
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCAR PROFESSIONALS	έ E
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3	B hrs.	
Select one from the	e following:	
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
approved data lite	Idents can satisfy this requirement with an racy course, or any approved natural or eral education course.	
Breadth of Knowle	dge	13
Social Science - 3	hrs.	
Humanities – 3 hrs	s.	
Natural & Physical	Science (must complete a lab) – 4 hrs.	
Arts – 3 hrs.		
Individual and Soci	al Responsibility	6
Cultural Knowledg	e – 3 hrs.	
Civic Knowledge a	nd Engagement – 3 hrs.	
MAJOR REQUIREM	ENTS	
**Course will satisfy l	JNO's General Education requirement	
^Course requires pre-	requisite(s)	
Chemistry Major w Chemistry - 70-71 H	ith a Concentration in Medicinal Iours Required	
Required Chemistr	y Coursework	34

	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 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY (^)	
	CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB (^)	
	CHEM 2500	INTRODUCTION TO INORGANIC CHEMISTRY (^)	
	CHEM 3350 & CHEM 3354	PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I LABORATORY (^)	
	CHEM 3710	ESSENTIALS OF MEDICINAL CHEMISTRY (^)	
	CHEM/BIOL 4650	BIOCHEMISTRY I (^ with the following lab)	
	CHEM/BIOL 4654	BIOCHEMISTRY I LABORATORY (^)	
	CHEM 4900	SENIOR ASSESSMENT IN CHEMISTRY	
	dditional Lecture		2.4
Se	elect one of the follow CHEM 3210	•	3-4
		INTRODUCTION TO MOLECULAR MODELING (^)	
	CHEM 4230	ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (^)	
	CHEM 4240	ADVANCED ORGANIC CHEMISTRY - MECHANISM (^)	
	CHEM 4250	ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (^)	
	CHEM/BIOL 4660	BIOCHEMISTRY II (^ Must take CHEM 4664 as the required additional lab.)	
A	dditional Lab		
Se	elect one of the follow		1
	CHEM 3424	SPECTROMETRIC CHARACTERIZATIONS (^)	
	CHEM/BIOL 4664	BIOCHEMISTRY II LABORATORY (Must take CHEM 4660 for required additional lecture)	
	CHEM 4950	CHEMISTRY PROJECTS	
R	equired Biology Co		9
	BIOL 1450	BIOLOGY I (**)	
	BIOL 2140	GENETICS (^)	_
		EWORK: Select 4 additional credits options in chemistry and biology:	4
	nalytical		
	CHEM 3030	ENVIRONMENTAL CHEMISTRY (^)	
	CHEM 3424	SPECTROMETRIC CHARACTERIZATIONS (^)	
	CHEM 4400	INSTRUMENTAL ANALYSIS (^)	
	CHEM 4404	INSTRUMENTAL ANALYSIS LABORATORY (^)	
Bi	ochemistry		
	CHEM/BIOL 4660	BIOCHEMISTRY II (^ with the following lab)	
	CHEM/BIOL 4664	BIOCHEMISTRY II LABORATORY (^)	

CHEM 4670	PROTEIN PURIFICATION AND	
Chamistry Education	CHARACTERIZATION (^)	
Chemistry Education CHEM 3720	CHEMISTRY TEACHING STRATEGIES	
	CHEMISTRY TEACHING STRATEGIES	
Inorganic	INODC AND CREEDADATIONS (A)	
CHEM 3514	INORGANIC PREPARATIONS (^)	
CHEM 4500	ADVANCED INORGANIC CHEMISTRY (^)	
CHEM 4510	SOLID STATE INORGANIC CHEMISTRY (^)	
CHEM 4540	GEOCHEMISTRY (^)	
Nuclear	NUICLEAR CHEMICTRY (A)	
CHEM 4320	NUCLEAR CHEMISTRY (^)	
Organic	INTRODUCTION TO MOUTOUR AR	
CHEM 3210	INTRODUCTION TO MOLECULAR MODELING (^)	
CHEM 4230	ADVANCED ORGANIC CHEMISTRY - SYNTHESIS (^)	
CHEM 4240	ADVANCED ORGANIC CHEMISTRY - MECHANISM (^)	
CHEM 4250	ADVANCED ORGANIC CHEMISTRY: MECHANISMS AND MODELING (^)	
Physical Chemistry	MESTINITIONS AND MODELING ()	
CHEM 3360	PHYSICAL CHEMISTRY II (^)	
CHEM 3364	PHYSICAL CHEMISTRY II () PHYSICAL CHEMISTRY II LABORATORY	
CHEW 3304	(^)	
Polymer		
CHEM 4310	POLYMER CHEMISTRY (^)	
Research	()	
CHEM 4950	CHEMISTRY PROJECTS (^)	
CHEM 4960	CHEMISTRY PROBLEMS (^)	
Internship	- ()	
CHEM 4810	CHEMISTRY INTERNSHIP (^)	
Special Topics	()	
CHEM 4930	SPECIAL TOPICS IN CHEMISTRY (^)	
Biology	, ,	
BIOL 3020	MOLECULAR BIOLOGY OF THE CELL	
BIOL 3240	INTRODUCTION TO IMMUNOLOGY	
BIOL 3830	BIOLOGY OF PATHOGENIC MICROORGANISMS	
BIOL 4130	MOLECULAR GENETICS	
BIOL 4140	CELLULAR BIOLOGY	
BIOL 4450	VIROLOGY (with or without the following lab)	
BIOL 4454	VIROLOGY LABORATORY	
BIOL 4640	MOLECULAR MICROBIOLOGY	
BIOL 4730	VERTEBRATE ENDOCRINOLOGY	
BIOL 4850	DEVELOPMENTAL BIOLOGY	
BIOL 4860	COMPARATIVE GENOMICS	
Other Required Cou	ırsework*	9
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II	
*MATH 1970, Calculu	s III, is recommended but not required	
Select one of the fo	llowing sequences	10
Sequence A		
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 (^)	

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200	uence	к

	PHYS 1110	PHYSICS FOR LIFE SCIENCE I
	& PHYS 1154	and GENERAL PHYSICS LABORATORY I
		(** ^)
	PHYS 1120	PHYSICS FOR LIFE SCIENCE II
	& PHYS 1164	and GENERAL PHYSICS LABORATORY II
		(^)
_		

To graduate with an ACS certified degree, see your chemistry advisor for proper course selection.

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

Additional Humanities Gen. Ed. from another Discipline - 3

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 of Science Requirement

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See major.

ELECTIVES

Elective hours as required to reach a total of 120 hours

Chemistry, Bachelor of Science with a Concentration in Medicinal Chemistry Four-year Plan

Freshman

Fall		Credits
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY ()	4
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1950	CALCULUS I	5
Attend Durango D	ays; 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	15
Spring		
CHEM 1190	GENERAL CHEMISTRY II	4
& CHEM 1194	and GENERAL CHEMISTRY II LABORATORY	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
MATH 1960	CALCULUS II	4
General Education C	Course or Elective	3

	its and career paths. ne review with UNO Career Services.	
	e hours and ask about undergraduate	
Make advising ap	ppointment for summer and fall: February –	
	Credits	14
Summer		
PHYS 2110 or PHYS 1110	GENERAL PHYSICS I - CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE I	4
PHYS 1154	GENERAL PHYSICS LABORATORY I	1
	Credits	5
Sophomore Fall		
CHEM 2250	ORGANIC CHEMISTRY I	3
CHEM 2400 & CHEM 2404	QUANTITATIVE ANALYSIS and QUANTITATIVE ANALYSIS LAB	4
General Education (Course or Elective	3
General Education C	Course or Elective	3
General Education C	Course or Elective	2
Attend the Caree employers.	r & Internship Fair to start networking with	
Look for voluntee experience.	r, research, or part-time work to gain	
Join a student or interests.	ganization or club related to your field or	
Make advising ap	ppointment for spring: Sept Oct.	
	Credits	15
Spring CHEM 2260 & CHEM 2274	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY LABORATORY	5
	INTRODUCTION TO INORGANIC	3
CHEM 2500	CHEMISTRY	3
CHEM 2500 General Education C		3
	Course or Elective	
General Education C	Course or Elective	3
General Education (General Education (Attend a career for purposes.	Course or Elective Course or Elective	3
General Education (General Education (Attend a career for purposes, Update your resurexperiences.	Course or Elective Course or Elective air for informational and networking me and LinkedIn profile with new apply for summer internships, research, or	3
General Education (General Education (Attend a career for purposes. Update your resu experiences. Investigate and a study abroad pro	Course or Elective Course or Elective air for informational and networking me and LinkedIn profile with new apply for summer internships, research, or	3
General Education (General Education (Attend a career from purposes. Update your resurve experiences. Investigate and a study abroad promote the purpose of the purpose	Course or Elective Course or Elective air for informational and networking me and LinkedIn profile with new apply for summer internships, research, or grams.	3
General Education (General Education (Attend a career from purposes. Update your resurve experiences. Investigate and a study abroad promote the purpose of the purpose	Course or Elective Course or Elective air for informational and networking me and LinkedIn profile with new apply for summer internships, research, or agrams. Appointment for summer and fall: February –	3 3
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General Education (General Education (Attend a career fr purposes. Update your resu experiences. Investigate and a study abroad pro Make advising ap March. Summer PHYS 2120 or PHYS 1120	Course or Elective Course or Elective air for informational and networking Ime and LinkedIn profile with new Imply for summer internships, research, or Improved the Imply for summer and fall: February – Credits GENERAL PHYSICS II-CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II	3 3 14
General Education (General Education (Attend a career fr purposes. Update your resu experiences. Investigate and a study abroad pro Make advising ap March. Summer PHYS 2120 or PHYS 1120	Course or Elective Course or Elective air for informational and networking Ime and LinkedIn profile with new Imply for summer internships, research, or Improved internships in the summer and fall: February – Credits GENERAL PHYSICS II-CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II GENERAL PHYSICS LABORATORY II	3 3 14 4
General Education C General Education C Attend a career fr purposes. Update your resu experiences. Investigate and a study abroad pro Make advising ap March. Summer PHYS 2120 or PHYS 1120 PHYS 1164	Course or Elective Course or Elective air for informational and networking Ime and LinkedIn profile with new Imply for summer internships, research, or Improved internships in the summer and fall: February – Credits GENERAL PHYSICS II-CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II GENERAL PHYSICS LABORATORY II	3 3 14
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General Education C General Education C Attend a career fr purposes. Update your resu experiences. Investigate and a study abroad pro Make advising ap March. Summer PHYS 2120 or PHYS 1120 PHYS 1164 Junior Fall CHEM 3350	Course or Elective Course or Elective air for informational and networking me and LinkedIn profile with new pply for summer internships, research, or grams. ppointment for summer and fall: February – Credits GENERAL PHYSICS II-CALCULUS LEVEL or PHYSICS FOR LIFE SCIENCE II GENERAL PHYSICS LABORATORY II Credits PHYSICAL CHEMISTRY I and PHYSICAL CHEMISTRY I	3 3 14 4 1 5

Attend campus events such as major exploration week to get

Reque grad s Attend Meet v review Make March Senior Fall CHEM 46 & CHEM OR CHEM & CHEM General E General E General E Check Finaliz Attend Preparation Service Make Spring CHEM 49 Advanced options) General E General E General E General E General E Complement Stay or organic	advising application Control of Course in Interview.	Credits BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY PHYSICAL CHEMISTRY I LABORATORY PHYSICAL CHEMISTRY I LABORATORY PHYSICAL CHEMISTRY I LABORATORY Durse or Elective Durse or El	13-15 4 3 3 2 12 0 4 3 3 2
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Reque grad s Attend Meet v review Make	remaining o advising app	pointment for summer and fall: February –	13-15
Reque grad s Attend Meet v review Make	remaining o advising app	• 1	
Reque grad s Attend Meet v	•	degree requirements.	
Reque grad s Attend	vith your ad	J	
Reque grad s		visor or submit for a graduation check-in to	
Reque		ors Career Fair with a plan to network.	
General E		recommendation from faculty for jobs or	
	ducation Co	ourse or Elective	2-3
Addition	ıl Chemistry	Lab	1
Addition	ıl Chemistry	Lecture	3-4
BIOL 214	0	GENETICS	4
Spring CHEM 37	'10	ESSENTIALS OF MEDICINAL CHEMISTRY	3
IVIUNC	uuvisiiig upi	Credits	15
		r, continue updating resume. pointment for spring: Sept-Oct.	
	sional schoo		
		and visiting graduate programs or	
	l a mock inte	erview workshop or use online interview	
Apply	for a paid in	ternship or research assistantship.	
General E	ducation Co	ourse or Elective	3
BIOL 145 General E		BIOLOGY I ourse or Elective	5

4

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!