

FINISH IN 4 AT UND

When you begin your Chemistry degree at Northland Community & Technical College

Plan of Study: BS/MS Accelerated (ABM) Degree in Chemistry (4+1 accelerated plan)

Begin courses at NCTC		
First Year First Semester		
	FYEC 1111: Pathways to Success	1
	ENGL 1111: Composition I	3
	MATH 1113: Pre-Calculus	5
	First semester language course (other than English) <i>Sign Language is accepted to meet this requirement</i>	4
	MNTC Goal 5 course	3
	MNTC Goal 6 course	3
Total Credits		19
First Year Second Semester		
	ENGL 1112: Composition II	3
	SPCH 1101: Intro to Public Speaking	3
	Second semester language course (other than English) <i>Sign Language is accepted to meet this requirement</i>	4
	MNTC Goal 6 course that also meets MNTC Goal 7, 8, 9, or 10	3
	MATH 165: Calculus I <i>Taken through UND (online or on-campus)</i>	4
Total Credits		17
Second Year First Semester		
	MNTC Goal 5 course that also meets MNTC Goal 7, 8, 9, or 10	3
	CHEM 221 & 221L: Fundamentals of Chemistry – Concepts & Lab <i>Taken through UND</i>	4
	MATH 166: Calculus II <i>Taken through UND (online or on-campus)</i>	4
	MNTC Goal 7-10 or Elective of interest	3
Total Credits		14
<p>Apply to UND by April 15</p> <ul style="list-style-type: none"> Complete online application at UND.edu/transfer Request NCTC transcripts to be sent to UND at northlandcollege.edu/students (link at bottom of page) <p>Apply for scholarships at UND by March 1</p> <ul style="list-style-type: none"> After admission submit application for campus-wide scholarships in UND's Scholarship Central 		
Second Year Second Semester		
	MNTC Goal 5 course that also meets MNTC Goal 7, 8, 9, or 10	3
	MNTC Goal 6 course that also meets MNTC Goal 7, 8, 9, or 10	3
	CHEM 254 & 254L: Inorganic Chemistry I & Lab <i>Taken through UND</i>	4
	MATH 265: Calculus III <i>Taken through UND (online or on-campus)</i>	4
Total Credits		14

Recommended for students to choose courses within MNTC Goals 5 & 6 that also satisfy Goals 7-10, if possible.



Take next steps to begin at UND <ul style="list-style-type: none">• Begin new student checklist at UND.edu/admitted• Attend UND Transfer Student Orientation at UND.edu/orientation		
Third Year First Semester		
	CHEM 101: Orientation to Chemistry	1
	CHEM 341 & 341L: Organic Chemistry I & Lab	4
	CHEM 361: Problem Solving in Organic Chemistry I	1
	CHEM 333 & 333L: Analytical Chemistry & Lab	4
	PHYS 251: University Physics I	4
Total Credits		14
Apply to UND Graduate School <ul style="list-style-type: none">• If admitted, students are able to dual-count up to 12 credits of undergraduate coursework towards graduate credit. Work with your graduate advisor to determine which courses to dual-count.		
Third Year Second Semester		
	CHEM 342 & 342L: Organic Chemistry II & Lab	4
	CHEM 362: Problem Solving in Organic Chemistry II	1
	PHYS 252: University Physics II	4
	BIMD 301: Biochemistry	3
	Elective of interest	3
Total Credits		15
Fourth Year First Semester		
	CHEM 454 & 454L: Inorganic Chemistry II & Lab	4
	CHEM 466 & 466R: Fundamentals of Physical/Biophysical Chemistry & Recitation	4
	CHEM 443: Instrumental Analysis III – Chromatography/Mass Spectrometry	2
	CHEM 492: Senior Research	3
	Elective of interest	3
Total Credits		16
Apply to graduate from UND with undergraduate degree <ul style="list-style-type: none">• After registering for your last semester of courses, apply at UND.edu/commencement		
Fourth Year Second Semester		
	CHEM 441: Instrumental Analysis I – Spectroscopy	2
	CHEM 442: Instrumental Analysis II - Electrochemistry	2
	CHEM 471: Quantum Mechanics & Spectroscopy	3
	CHEM 462: Physical Chemistry Laboratory	3
	CHEM 495: Chemistry Capstone	3
Total Credits		13
Graduate School First Semester		
	CHEM 509: Graduate Seminar	1
	Graduate Chemistry course	3
	Graduate Chemistry Electives	9
Total Credits		13



Apply to graduate from UND with graduate degree

- After registering for your last semester of courses, apply at UND.edu/commencement

Graduate School Second Semester		
	CHEM 997: Independent Study	1
	Graduate Chemistry course	3
	Graduate Chemistry Electives	9
Total Credits		13
TOTAL CREDITS TO GRADUATE		148