

FINISH IN 4 AT UND

When you begin your Chemical Engineering degree at Bismarck State College.

Plan of Study: Bachelor of Science in Chemical Engineering

Begin courses at BSC		
First Year First Semester		
ENGL 110 – College Composition		3
MATH 165 – Calculus I		4
CHEM 121/121L – General Chemistry I and lab		5
Humanities course – HIST 101, 102, 103 or 104		3
Social Science elective		3
Total Credits		18
First Year Second Semester		
CHEM 122/122L – General Chemistry II and lab		5
ENGL 120/125 – College Composition <u>or</u> Intro to Professional Writing		3
MATH 166 – Calculus II		4
Fine Arts elective		3
ECON 201 – Principles of Microeconomics		3
Total Credits		18
Second Year First Semester		
CHEM 241/241L – Organic Chemistry I and lab		5
MATH 265 – Calculus III		4
PHYS 251/251L – University Physics I and lab		5
Enrichment course		2
CHE 201 Chemical Engineering Fundamentals (taken at UND)		3
Total Credits		19
Apply to UND by April 15 <ul style="list-style-type: none"> • Complete online application at UND.edu/transfer • Request BSC transcripts to be sent to UND. Apply for scholarships at UND by March 1 <ul style="list-style-type: none"> • After admission submit application for campus-wide scholarships in UND's Scholarship Central 		
Second Year Second Semester		
MATH 266 – Differential Equations		3
PHYS 252/252L – University Physics II and lab		5
COMM 110 – Public Speaking		3
CHE 206 – Unit Operations in Chemical Engineering (taken at UND)		3
CHE 315 – Engineering Statistics and Design of Experiments		3
Total Credits		17
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		
CHE 301 – Intro to Transport Phenomena		4
CHE 303 – Chemical Engineering Thermodynamics		4
CHE 331 – Chemical Engineering Lab II		2



ENGR 206 – Fundamentals of Electrical Engineering	3
HUM/AW – Humanities, Analyzing Worldview	3
Total Credits	16
Third Year Second Semester	
LEAD 101 – Learning Leadership	3
CHE 232 – Chemical Engineering Lab I	2
CHE 305 – Separations	3
CHE 321 – Chemical Engineering Reactor Design	3
CHE 332 – Chemical Engineering Lab III	2
ENGR 340 – Professional Integrity in Engineering	3
CHE 103 – Computing Tools for Chemical Engineering	3
Total Credits	19
Fourth Year First Semester	
CHE 408 – Process Dynamics and Control	3
CHE 411 – Plant Design I: Process Design and Economics	4
CHE 431 – Chemical Engineering Lab IV	3
CHEM 466 – Fundamentals of Physical and Biological Chemistry	3
CHE Technical Elective	3
Total Credits	16
Apply to graduate from UND	
• After registering for your last semester of courses, apply at UND.edu/commencement	
Fourth Year Second Semester	
CHE 412 – Plant Design II: Process Project Engineering	5
CHE 416 – Chemical Product Design	3
Advanced Chemical Science elective	3
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Material Science Elective	3
Total Credits	17
TOTAL CREDITS TO GRADUATE	140