

Schreiner University			UND		
<b>Chemical Engineering requirements</b>					
ENGR 1301	3	Introduction to Engineering	CHE 102	2	Introduction to Chemical Engineering
Must be taken at UND			CHE 103	3	Computer Tools for Chemical Engineers
Must be taken at UND			CHE 201	3	Chemical Engineering Fundamentals
Must be taken at UND			CHE 206	3	Unit Operations in Chemical Engineering
Must be taken at UND			CHE 232	2	Chemical Engineering Laboratory
Must be taken at UND			CHE 301	4	Introduction to Transport Phenomena
Must be taken at UND			CHE 303	4	Chemical Engineering Thermodynamics
Must be taken at UND			CHE 305	3	Separations
Must be taken at UND			CHE 315	3	Engineering Statistics and Design of Experiments
Must be taken at UND			CHE 321	3	Chemical Engineering Reactor Design
Must be taken at UND			CHE 331	2	Chemical Engineering Laboratory II
Must be taken at UND			CHE 332	2	Chemical Engineering Laboratory III
Must be taken at UND			CHE 408	3	Process Dynamics and Control
Must be taken at UND			CHE 411	4	Plant Design I: Process Design and Economics
Must be taken at UND			CHE 412	5	Plant Design II: Process Project Engineering
Must be taken at UND			CHE 416	3	Chemical Product Design
Must be taken at UND			CHE 431	3	Chemical Engineering Laboratory IV
<b>Advanced Chemical Science Electives (6 credits required)*</b>					
<b>Material Science Elective (3 credits required)*</b>					
<b>Technical Elective (3 credits required)*</b>					
<b>College of Engineering and Mines Requirements</b>					
Must be taken at UND			ENGR 206	3	Fundamentals of Electrical Engineering
PHIL 1310	3	Introduction to Ethics	ENGR 340	3	Professional Integrity in Engineering
CHEM 3103/3303	4	Thermodynamics and lab	CHE 403	3	Molecular Thermodynamics and Kinetics
<b>Required courses for CHE within other departments</b>					
CHEM 1301/1101	4	General Chemistry I and lab	CHEM 121/L	3/1	General Chemistry I and lab
CHEM 1302/1101	4	General Chemistry II and lab	CHEM 122/L	3/1	General Chemistry II and lab
CHEM 2311/2111	4	Organic Chemistry and lab	CHEM 341/L	4/1	Organic Chemistry I and lab
Must be taken at UND			LEAD 101	3	Learning Leadership
MATH 2422	4	Calculus I	MATH 165	3/1	Calculus I
MATH 2423	4	Calculus II	MATH 166	4	Calculus II
MATH 3324	4	Calculus III	MATH 265	4	Calculus III
MATH 3425	3	Differential Equations	MATH 266	3	Intro to Differential Equations
PHYS 2325/2125	4	University Physics I and lab	PHYS 251	4	University Physics I

PHYS 2326/2126	4	University Physics II and lab	PHYS 252	4	University Physics II
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All Essential Studies requirements will be waived upon receipt of an official updated transcript verifying a bachelor's degree has been earned.

\*Students are encouraged to work with their academic advisor to choose technical electives that fit with their individual learning plan.