

Schreiner University			UND		
<b>Civil Engineering requirements</b>					
ENGR 1310	3	Introduction to Engineering	CE 101	1	Intro to Civil Engineering
Must be taken at UND			CE 103	3	Graphical Communication
ENGR 3320	3	Fluid Mechanics	CE 306	3	Fluid Mechanics
Must be taken at UND			CE 313/313L	3	General Surveying and lab
Must be taken at UND			CE 351	4	Structural Mechanics
Must be taken at UND			CE 411	2	Civil Engineering Materials
Must be taken at UND			CE 412/CE 412L	3	Soil Mechanics and lab
Must be taken at UND			CE 414	3	Foundation Engineering
Must be taken at UND			CE 416	3	Transportation Engineering
Must be taken at UND			CE 421	3	Hydrology
Must be taken at UND			CE 423/CE 423L	3	Hydraulic Engineering and lab
Must be taken at UND			CE 431/CE 431L	3	Environmental Engineering I and lab
Must be taken at UND			CE 432	3	Environmental Engineering II
Must be taken at UND			CE 444	3	Contracts and Specifications
Must be taken at UND			CE 451	3	Steel Design
Must be taken at UND			CE 453	3	Reinforced Concrete
Must be taken at UND			CE 482	3	Civil Engineering Design I
Must be taken at UND			CE 483	3	Civil Engineering Design II
<b>Program Required Technical Electives (6 credits total required)*</b>					
<b>College of Engineering and Mines Requirements</b>					
CIT 2410	3	Introduction to Programming Logic	ENGR 200	2	Computer Applications in Engineering
ENGR 2310	3	Engineering Statics	ENGR 201	3	Statics
ENGR 2320	3	Engineering Dynamics	ENGR 202	3	Dynamics
ENGR 2330	3	Mechanics of Materials	ENGR 203	3	Mechanics of Materials
PHIL 1310	3	Introduction to Ethics	ENGR 340	3	Professional Integrity in Engineering
Must be taken at UND			ENGR 460	3	Engineering Economy
Must be taken at UND			GEOL 101/L or GEOE 203	4/3	Introduction to Geology and lab or Earth Dynamics
<b>Required courses for CE within other departments</b>					
CHEM 1301/1101	4	General Chemistry I and lab	CHEM 121/L	4	General Chemistry I and lab
MATH 2422	4	Calculus I	MATH 165	4	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
Must be taken at UND			MATH 321	3	Applied Statistical Methods
PHYS 2325/2125	4	University Physics I and lab	PHYS 251	4	University Physics I
CHEM 1302/1101 or PHYS 2326/2126	4	General Chemistry II and lab or University Physics II and lab	CHEM 122/L or PHYS 252	4	General Chemistry II and lab or University Physics II

Students transferring to UND with a completed 4-year accredited baccalaureate degree will have all Essential Studies requirements waived.

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



