

Schreiner University			UND		
<b>Mechanical Engineering requirements</b>					
ENGR 1301	3	Introduction to Engineering	ME 101	3	Introduction to Mechanical Engineering
			ME 201	2	Student Design Lecture and Lab
Must be taken at UND			ME 301	3	Materials Science
ENGR 3320	3	Fluid Mechanics	ME 306	3	Fluid Mechanics
Must be taken at UND			ME 322	3	Design of Machinery
Must be taken at UND			ME 323/323L	4	Machine Component Design and Lab
ENGR 3310	3	Engineering Thermodynamics	ME 341	3	Thermodynamics
Must be taken at UND			ME 418/418L**	4	Manufacturing Processes and Lab
Must be taken at UND			ME 474	3	Fundamentals of Heat and Mass Transfer
Must be taken at UND			ME 480	3	Mechanical Engineering Seminar
Must be taken at UND			ME 483	3	Mechanical Measurements Lab
Must be taken at UND			ME 487	2	Engineering Design
Must be taken at UND			ME 488	3	Engineering Design
<b>Program Required Electives (21 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
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
Must be taken at UND			ENGR 460	3	Engineering Economy
<b>Required courses for ME 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
PHYS 2326/2126	4	University Physics II and lab	PHYS 252	4	University Physics II

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

\*Student may only transfer in one technical elective to apply to the requirements.

Three technical electives must be completed from UND, one in each stem unless pursuing the aerospace concentration. One technical elective can be taken outside the ME Department within other CEM Departments, Math or Physics. The course must be at the 300-level or higher and be consistent with the student's individual learning plan.

\*\*These courses have different course designations for students in online programs, and are indicated with C & CL