

University of Mary			UND		
Mechanical Engineering requirements					
Must be taken at UND			ME 101	3	Introduction to Mechanical Engineering
EME 201	2	Student Design	ME 201	2	Student Design Lecture and Lab
Must be taken at UND			ME 301	3	Materials Science
Must be taken at UND			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
EME 341	3	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
Program Required Electives (21 credits total required)*					
College of Engineering and Mines Requirements					
ENR 200	2	Computer for Math & Engineering	ENGR 200	2	Computer Applications in Engineering
ENR 201	3	Statics	ENGR 201	3	Statics
ENR 202	3	Dynamics	ENGR 202	3	Dynamics
ENR 203	3	Mechanics of Materials	ENGR 203	3	Mechanics of Materials
ENR 206	3	Fundamentals of Electrical Engineering	ENGR 206	3	Fundamentals of Electrical Engineering
PHI 308	3	Ethics	ENGR 340	3	Professional Integrity in Engineering
Must be taken at UND			ENGR 460	3	Engineering Economy
Required courses for ME within other departments					
CHE 111	4	General Inorganic Chemistry I	CHEM 121/L	4	General Chemistry I and lab
MAT 209	4	Calculus with Analytic Geometry I	MATH 165	4	Calculus I
MAT 210	4	Calculus with Analytic Geometry II	MATH 166	4	Calculus II
MAT 211	4	Calculus with Analytic Geometry III	MATH 265	4	Calculus III
MAT 334	3	Differential Equations	MATH 266	3	Intro to Differential Equations
EEL 318	3	Engineering Data Analysis	MATH 321	3	Applied Statistical Methods
PHY 251/251L	4	Engineering Physics I: Classical Mechanics and lab	PHYS 251	4	University Physics I
PHY 252/252L	4	Engineering Physics II: Electromagnetism and Optics 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