

University of Mary			UND		
Electrical Engineering requirements					
Must be taken at UND			EE 101	1	Introduction to Electrical Engineering
EEL 201	3	Introduction to Digital Electronics	EE 201/201L	4	Introduction to Digital Circuits
EEL 206/206L	4	Circuit Analysis and lab	EE 206/L	3	Circuit Analysis
Must be taken at UND			EE 304	3	Computer Aided Measurement and Controls
EE 313/313L	4	Linear Electric Circuits and lab	EE 313/313L	4	Linear Electric Circuits and lab
EEL 314/314L	4	Signals and Systems and lab	EE 314/314L	4	Signal and Systems and lab
EEL 316	3	Electric & Magnetic Fields	EE 316	3	Electric and Magnetic Fields
EEL 318	3	Engineering Data Analysis	EE 318	3	Engineering Data Analysis
EEL 321/321L	4	Electronics I and lab	EE 321/321L	4	Electronics I and lab
Must be taken at UND			EE 401/401L	4	Electric Drives and lab
EEL 405/405L	4	Control Systems I and lab	EE 405/405L	4	Control Systems I and lab
Must be taken at UND			EE 409	3	Distributed Networks
Must be taken at UND			EE 421/421L	4	Electronics II and lab
EEL 452/452L	4	Embedded systems and lab	EE 452/452L	4	Embedded Systems and lab
Must be taken at UND			EE 480	3	Senior Design I
Must be taken at UND			EE 481	3	Senior Design II
EE elective requirements (12 total credits required)*					
EEL 462	3	Systems Programming	EE 451	3	Computer Hard Organization
EEL 461	3	Advanced Programming	EE elective	3	EE Elective credit
Must be taken at UND			EE electives	6	EE elective credits
Non-EE elective requirements (6 total credits required)*					
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
			ME 306	3	Fluid Mechanics
EME 341	3	Thermodynamics	ME 341	3	Thermodynamics
College of Engineering and Mines Requirements					
PHI 308	3	Ethics	ENGR 340	3	Professional Integrity in Engineering
Must be taken at UND			ENGR 460	3	Engineering Economy
Required courses for EE within other departments					
CHE 111	4	General Inorganic Chemistry I	CHEM 121/L	3/1	General Chemistry I
MAT 209	4	Calculus with Analytic Geometry I	MATH 165	3/1	Calculus I
MAT 210	4	Calculus with Analytic Geometry II	MATH 166	4	Calculus II
			MATH 207	2	Linear Algebra

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
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.

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