

Principia College			UND		
<b>Electrical Engineering requirements</b>					
Must be taken at UND			EE 101	1	Introduction to Electrical Engineering
Must be taken at UND			EE 201/201L	4	Introduction to Digital Circuits
ENGR 206	3	Electrical Engineering Circuit Analysis	ENGR 206/L	3	Circuit Analysis
Must be taken at UND			EE 304	3	Computer Aided Measurement and Controls
Must be taken at UND			EE 313/313L	4	Linear Electric Circuits and lab
Must be taken at UND			EE 314/314L	4	Signal and Systems and lab
Must be taken at UND			EE 316	3	Electric and Magnetic Fields
Must be taken at UND			EE 318	3	Engineering Data Analysis
Must be taken at UND			EE 321/321L	4	Electronics I and lab
Must be taken at UND			EE 401/401L	4	Electric Drives and lab
Must be taken at UND			EE 405/405L	4	Control Systems I
Must be taken at UND			EE 409	3	Distributed Networks
Must be taken at UND			EE 421/421L	4	Electronics II and lab
Must be taken at UND			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
<b>EE elective requirements (12 total credits required)*</b>					
<b>Non-EE elective requirements (6 total credits required)</b>					
ENGR 201	3	Engineering Mechanics: Statics	ENGR 201	3	Statics
ENGR 202	3	Engineering Mechanics: Dynamics	ENGR 202	3	Dynamics
ENGR 203	3	Mechanics of Materials	ENGR 203	3	Mechanics of Materials
CHEM 311	3	Phys Chem I: Thermodynamics	ME 341	3	Thermodynamics
ENGR 410	3	Underwater Vehicle Design	Non-EE Elect	3	Non-EE Elective
<b>College of Engineering and Mines Requirements</b>					
PHIL 3250	3	Ethics	ENGR 340	3	Professional Integrity in Engineering
Must be taken at UND			ENGR 460	3	Engineering Economy
<b>Required courses for EE within other departments</b>					
CHEM 131	4	Fundamentals of Chemistry I	CHEM 121/L	3/1	General Chemistry I
MATH 181	4	Calculus I	MATH 165	3/1	Calculus I
MATH 182	4	Calculus II	MATH 166	4	Calculus II
MATH 273	3	Linear Algebra	MATH 207	2	Linear Algebra
MATH 283	4	Multivariable Calculus	MATH 265	4	Calculus III
MATH 380	3	Differential Equations	MATH 266	3	Intro to Differential Equations
PHYS 201 + 202	4	Physics for Scientists/Engrs I + II	PHYS 251	4	University Physics I

Must be taken at UND			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.

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