

# College of Engineering & Mines Curriculum Information

## LCMC Plan for Combined B.S. in Electrical Engineering from University of North Dakota (UND) and B.S. in Physics from Baker University (BU)

FIRST YEAR FALL	Credits	Taken	UND Course
CH 137/L: General Chemistry I/Lab	4	BU	CHEM 121/L
BK 101: Baker Experience	1	BU	
BC 110: Freshman Seminar I	3	BU	
MA 171: Calculus I	4	BU	MATH 165
PC 225: General Physics I	4	BU	PHYS 251

SECOND YEAR FALL	Credits	Taken	UND Course
PC 325: General Physics III	4	BU	Note <sup>2</sup>
PC 361: Thermodynamics	3	BU	Non-EE Elec.
MA 372: Differential Equations	3	BU	MATH 266
PH 120: Ethics	3	BU	ENGR 340
Core- Fine Arts	3	BU	
EE 101: Intro. To Electrical Engr.	1	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
PC 470: Electricity and Magnetism I	3	BU	
MA 281: Linear Algebra	4	BU	MATH 207
Core- Foreign Language	3	BU	
EE 206/L: Circuit Analysis/Lab	4	UND	
EE 304: Comp. Aided Meas. and Control	3	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PC 490: Quantum Mechanics	3	BU	
EE 314/L: Signals and Systems/Lab	4	UND	
EE 316: Electric and Magnetic Fields	3	UND	
EE 318: Engineering Data Analysis	3	UND	
EE 321/L: Electronics I/Lab	4	UND	

FIRST YEAR SPRING	Credits	Taken	UND Course
CH 138/L: General Chemistry II	4	BU	CHEM 122/L <sup>1</sup>
BC 120: Freshman Seminar II	3	BU	
MA 172: Calculus II	4	BU	MATH 166
PC 226: General Physics II	4	BU	Note <sup>2</sup>

SECOND YEAR SPRING	Credits	Taken	UND Course
MA 271: Calculus III	4	BU	MATH 265
PC 332: Electronics	4	BU	
Core- Humanities	3	BU	
EE 201/L: Intro. To Digital Elec./Lab	4	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
PC 471: Electricity and Magnetism II	3	BU	
PC 381: Statics	3	BU	Non-EE Elec.
Core- Social Sciences	3	BU	
EE 313/L: Linear Electric Circuits/Lab	4	UND	
ENGR 460: Engineering Economy	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
PC 491: Senior Projects	1-3	BU	
Core- Fine Arts	3	BU	
EE 401/L: Electric Drives/Lab	4	UND	
EE 405/L: Control Systems I/Lab	4	UND	
EE 421/L: Electronics II/Lab	4	UND	

<b>FIFTH YEAR FALL</b>	Credits	Taken	UND Course
Core- Social Sciences	3	BU	
EE 480: Senior Design I	3	UND	
Electrical Engineering Elective	3	UND	
Electrical Engineering Elective	3	UND	
Electrical Engineering Elective	3	UND	

<b>FIFTH YEAR SPRING</b>	Credits	Taken	UND Course
Core- Capstone	3	BU	
EE 452/L: Embedded Systems/Lab	4	UND	
EE 409: Distributed Networks	3	UND	
EE 481: Senior Design II	3	UND	
Electrical Engineering Elective	3	UND	

NOTES	<sup>1</sup> CH 138L is a new course to be offered from Baker; existing CH 141 course will not have equivalency to any UND course
	<sup>2</sup> Both PC 226 and PC 325 must be completed successfully for equivalency to PHYS 252 at UND
<b><i>Plan created February 2023 using requirements from the 2023-2024 UND catalog</i></b>	