

## B.S. in Electrical Engineering from UND and B.S. in Physics from Elmhurst University (Elmhurst)

FIRST YEAR FALL	Credits	Taken	UND Course
MTH 151: Calculus I	4	Elmhurst	Math 165
PHY 121: General Physics I	4	Elmhurst	See Note <sup>1</sup>
FYS 100: First Year Seminar	4	Elmhurst	
ENG 105: Composition I	4	Elmhurst	

FIRST YEAR SPRING	Credits	Taken	UND Course
MTH 152: Calculus II	4	Elmhurst	MATH 166
PHY 122: General Physics II	4	Elmhurst	See Note <sup>1</sup>
ENG 106: Composition II	4	Elmhurst	
EE 101: Introduction to EE	1	UND	
EE 201/L: Intro to Digital Electronics and Lab	4	UND	

SECOND YEAR FALL	Credits	Taken	UND Course
MTH 251: Calculus III	4	Elmhurst	MATH 265
CHM 211: General Chemistry I	4	Elmhurst	CHEM 121/L
PHY 304: Intermediate Physics	4	Elmhurst	
Approved IC Literature	4	Elmhurst	
EE 206/L: Circuit Analysis and Lab	4	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MTH 341: Differential Equations	4	Elmhurst	MATH 266
PHYS 305: Modern Physics	4	Elmhurst	
CHM 212: Chemical Principles II	4	Elmhurst	
Approved IC Fine Arts	4	Elmhurst	
EE 313/L: Linear Electric Circuits & Lab	4	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
Approved IC Biology Course <sup>2</sup>	4	Elmhurst	
MTH 362: Linear Algebra	4	Elmhurst	MATH 207
PHY 313: Thermodynamics	4	Elmhurst	
EE 314/L: Signals and System & Lab	4	UND	
EE 304: Computer Aided Measure & Control <sup>3</sup>	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
PHL 310: Business Ethics <sup>4</sup>	4	Elmhurst	ENGR 340 <sup>5</sup>
PHY 312: Electricity and Magnetism	4	Elmhurst	
Approved IC Historical Analysis	4	Elmhurst	
EE 401/L: Electric Drives & Lab	4	UND	
EE 405/L: Control System I & Lab	4	UND	

FOURTH YEAR FALL	Credits	Taken	UND Course
PHY 414: Optics	4	Elmhurst	
PHY 311: Analytical Mechanics	4	Elmhurst	Non-EE Elective
EE 321/L: Electronics I * Lab	4	UND	
EE 316: Electric and Magnetic Fields	3	UND	
EE 318: Engineering Data Analysis	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
Approved IC Social and Political Analysis	4	Elmhurst	
PHY 421: Quantum Mechanics	4	Elmhurst	Non-EE Elective
EE 421/L: Electronics II & Lab	4	UND	
EE 409: Distributed Networks	3	UND	
EE 452/L: Embedded Systems & Lab	4	UND	

<b>FIFTH YEAR FALL</b>	Credits	Taken	UND Course
Approved IC Cognitive and Behavioral Science	4	Elmhurst	
EE 480 Senior Design I	3	UND	
Approved EE Technical Elective	3	UND	
Approved EE Technical Elective	3	UND	
ENGR 460: Engineering Economy	3	UND	

<b>FIFTH YEAR SPRING</b>	Credits	Taken	UND Course
Approved IC Religious Studies in Context	4	Elmhurst	
PHY 494: Independent Research	4	Elmhurst	
EE 481: Senior Design II	3	UND	
Approved EE Technical Elective	3	UND	
Approved EE Technical Elective	3	UND	

NOTES	<sup>1</sup> PHY 121 and PHY 122 from Elmhurst combine for equivalency to UND's PHYS 251: University Physics. A waiver for PHY 252: University Physics II will be provided upon completion of Physics degree from Elmhurst.
	<sup>2</sup> Satisfies Elmhurst's Life Science IC Requirement
	<sup>3</sup> Transfers back as equivalent to CS220 at Elmhurst.
	<sup>4</sup> Satisfies IC - Inquiry into Ethics and Justice requirement at Elmhurst
	<sup>5</sup> Course is not directly equivalent, but is approved as a waiver.