



**Pre-Engineering - Electrical (Pre-Calculus Start)  
Associate in Applied Science**

**Five Semester Pathway Academic Year 2021-2022**

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 100	Introduction to Engineering		ENGL 095		2	
ENGL 100	English Composition		ENGL 090, ENGL 095		3	
CSCI 110	Principles of Computer Science		MATH 050		4	
MATH 190	Precalculus		MATH 140, MATH 146		3	
Semester 2	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
COMM 201	Technical Writing/Communications		ENGL 100 or ENGL 101		3	
MATH 225	Discrete Mathematics		MATH 140, ENGL 090, ENGL 095		3	
MATH 260	Calculus I		MATH 190		4	
PHYS 200	Physics for Engineers I with Lab		MATH 190	MATH 260	4	
Semester 3	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
MATH 270	Calculus II		MATH 260		4	
PHYS 250	Physics for Engineers II with Lab	Offered Fall only	PHYS 200, MATH 260		4	
	Social Science Elective		See course prerequisites	See course corequisites	3	
CHEM 131	Chemistry for Engineers with Lab	Offered Fall only	MATH 190		4	
Semester 4	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 172	Digital Logic		ENGR program acceptance, MATH-225		4	
ENGR 216	Circuits I: Steady State Analysis	Offered Spring only		MATH 270, PHYS 250	3	
ENGL 110	Oral Communications		ENGL 090, ENGL 095		3	
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
MATH 275	Intro to Differential Equations and Linear Algebra	Offered Fall only	MATH 270		4	
Semester 5	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 217	Circuits II: System Dynamics with Lab	Offered Summer only	ENGR 216	COMM 201, MATH 275	4	

## Pre-Engineering Electrical (Pre-Calculus Start)

<b>General Education Requirements</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>PREREQUISITES</b>	<b>COREQUISITES</b>	<b>CREDITS</b>	<b>MET</b>
ENGL 100	English Composition	ENGL 090, ENGL 095		3	
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
MATH 190	Precalculus	MATH 140, MATH 146		3	
CHEM 131	Chemistry for Engineers with Lab	MATH 190		4	
ENGL 110	Oral Communications	ENGL 090, ENGL 095		3	
	Social Science Electives			3	
<b>Major Required Courses</b>					
<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>PREREQUISITES</b>	<b>COREQUISITES</b>	<b>CREDITS</b>	<b>MET</b>
COMM 201	Technical Writing	ENGL 100 or ENGL 101		3	
CSCI 110	Principles of Computer Science	MATH 050		4	
ENGR 100	Introduction to Engineering	ENGL 095		2	
ENGR 172	Digital Logic	ENGR program acceptance, MATH-225		4	
ENGR 216	Circuits I: Steady State		MATH 270, PHYS 250	3	
ENGR 217	Circuits II: System Dynamics	ENGR 216	COMM 201, MATH 275	4	
MATH 225	Discrete Mathematics	MATH 140, ENGL 090, ENGL 095		3	
MATH 260	Calculus I	MATH 190		4	
MATH 270	Calculus II	MATH 260		4	
MATH 275	Introduction to Differential Equations with Linear Algebra	MATH 270		4	
PHYS 200	Physics for Engineers I with Lab	MATH 190	MATH 260	4	
PHYS 250	Physics for Engineers II with Lab	PHYS 200, MATH 260		4	

2021-2022