

Southern State Community College

Electro-Mechanical Engineering (470A)

AAS

2025-26	REQUIRED COURSES:	Semester Hours	Type of Credit	CTAN	ODE High School Course Alignment
Year One/Fall Semester					
ENDS 1100	Introduction to Engineering	2			
ENDS 1140	Introduction to Engineering Graphics and AutoCAD	3	CTAG	CTEGT002	ODE 175001 Engineering Design
ENGL 1101	English Composition I	3	OT36		
EENG 1105	DC Circuits & Devices	3	CTAG	CTEET001	ODE Prerequisite: College Algebra. Career-technical students from CT ² approved institutions will not receive credit or credit hour value for DC Circuits until he/she has completed the requirement for MATH 1120 or 1141 at the matriculating institution
MATH 1120*	Technical Mathematics	3	CCP Option		*(or MATH 1141)
Year One/Spring Semester					
CSCI 2260	MicroController Programming	3	CTAG	CTEET003	ODE 175004 Programmable Logic Controls
ENDS 2232	Introduction to Solidworks	3			
PHYS 2201	General Physics I (College Algebra Based)/Lab	5	OT36		
EENG 2205	Digital Electronics	3	CTAG	CTEET002	ODE 175007 Digital Electronics
EENG 1115	AC Circuits & Devices	3			
Year Two/Fall Semester					
ENDS 2201	Engineering Mechanics (Statics)	3			
ENDS 2205	Hydraulic & Pneumatics (Fluid Mechanics)	3			
ENDS 1143	Introduction to Project Management and Product Design	3			
EENG 2215	Analog Circuits & Devices	3			
EENG 2285	Manufacturing Control Systems	3	TAG/ITAG		
EENG 1185	Electrical Machinery	3			
Year Two/Spring Semester					
ENDS 2203	Strength of Materials	3			
ENGL 2205	Technical Report Writing	3	CCP Option		
ENDS/EENG 2299	Research Project	3			
COMM 1115	Fundamentals of Effective Speech	3	OT36		
XXXXXX	General Elective (Humanities or Social Sciences)	4	OT36		

COLLEGE CREDIT OPPORTUNITY (from above)- depends on high school course completion

	Course Name	Semester Hours	Type of Credit	CTAN	ODE High School Course Alignment
EENG 1105	DC Circuits & Devices	3	CTAG	CTEET001	ODE 175105 DC Electronic Circuits
EENG 2205	Digital Electronics I	3	CTAG	CTEET002	ODE 175007 Digital Electronics
CSCI 2260	MicroController Programming	3	CTAG	CTEET003	ODE 175004 Programmable Logic Controls
ENGL 1101	English Composition I	3	OT36		
ENGL 2205	Technical Report Writing	3	CCP Option		
MATH 1120	Technical Mathematics	3	CCP Option		or MATH 1141
COMM 1115	Fundamentals of Effective Speech	3	OT36		
PHYS 2201	General Physics I (Algebra Based)/Lab	5	OT36		
XXXXXX	General Elective (Humanities or Social Sciences)	3	OT36		