



**Program of Study**  
**Career Field: Industrial, Manufacturing, and Engineering Systems**  
**Career Cluster: Manufacturing**  
**Career Pathway: Maintenance, Installation, and Repair**



**Southeast Community College**

DEGREE:  
 Electrical & Electromechanical Technology- Electrical Systems  
[http://www.southeast.edu/programs/Elec\\_ElecMec/default.aspx](http://www.southeast.edu/programs/Elec_ElecMec/default.aspx)

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	GENERAL ELECTIVES	PATHWAY ELECTIVE COURSES	EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES			
<b>HIGH SCHOOL</b>	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages & Cultures Physical Education	Intro to Manufacturing/Mechanics Manufacturing Woods Manufacturing Metals	<i>School Activities:</i> SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS  <i>Community Activities:</i> Connect with manufacturing professionals, Learn to repair machinery, Learn to use the latest tools for home repair, Tour a factory, Part time employment available within this career cluster			
	10	English/Language Arts II	Geometry	Biology	World History	Health Education Information Technology Applications I Entrepreneurship					
	11	English/Language Arts III	Algebra II	Chemistry	American History	Automotive Mechanics Cabinetmaking Programming I					
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics	American Government or Economics	Electronics Welding					
<b>SOUTHEAST COMMUNITY COLLEGE</b>		<b>COMMUNICATIONS</b>	<b>MATH/SCIENCE</b>	<b>SOCIAL SCI/HUMANITIES</b>	<b>COMPUTER TECHNOLOGY</b>	<b>FOCUS COURSES</b>					
	13 and 14	Public Speaking	Thinking Mathematically	Personal Finance	Microcomputer Applications	DC Principles	AC Principles	CAD & Electrical Estimating	Motor Controls	Residential & Commercial Wiring	Transformer Three Phase Systems
		Written Communications	Technical Physics			Predictive Maintenance Principles	Industrial Wiring	Programmable Logic Controllers I	Electrical Machine Controls	Industrial Communications & Alarm Systems	Industrial Electronics
						Industrial Control Systems	Programmable Logic Controllers II	Career Development	Principles of Quality Management		