



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- Electromechanical Systems
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			
HIGH SCHOOL	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages & Cultures Physical Education	Intro to Manufacturing/Mechatronics 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					
SOUTHEAST COMMUNITY COLLEGE		COMMUNICATIONS	MATH/SCIENCE	SOCIAL SCI/HUMANITIES	COMPUTER TECHNOLOGY	FOCUS COURSES					
	13 and 14	Public Speaking	Thinking Mathematically	Personal Finance	Microcomputer Applications	DC Principles	AC Principles	Sketching & CAD	Motor Controls	Fluid Power	Welding
		Written Communications	Technical Physics			Power Transmission & Lubricants	Industrial Machines & Mechanical Systems	Transformer Three Phase Systems	Predictive Maintenance Principles	Programmable Logic Controllers I	Electrical Machine Controls
						Industrial Communications & Alarm Systems	Industrial Electronics	Industrial Control Systems	Programmable Logic Controllers II	Manufacturing Processes	Manufacturing Processes II
						Career Development	Principles of Quality Management				