



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



Southeast Community College

DEGREE:
 Electronic Systems Technology- Computers, Automation, and Networking
<http://www.southeast.edu/programs/EST/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 Electronics	AC Electronics	Digital Circuits	Active Devices	Electronic Drafting	Analog Circuits
		Written Communications	Technical Physics			Power Supply Systems	Advanced Digital Circuits	Communication Systems	Advanced Communication Systems	WiFi & Transmission Systems	Systems Troubleshooting
						Advanced Systems Troubleshooting	PC Operating Systems	Networking Infrastructure (CCNA 1)	Router Implementation (CCNA 2)	Microprocessor Applications	Advanced Microprocessor Applications
						Career Development	Structured Programming for Electronic	Network Operating Systems & Administration	LAN Switching and Wireless (CCNA 3)	Wide Area Networking (CCNA 4)	Hydraulics and Pneumatics