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

Southeast Community College
DEGREE:
Manufacturing Engineering Technology
http://www.southeast.edu/programs/MFGT/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 Health Education Information Technology Applications I Entrepreneurship Automotive Mechanics Cabinetmaking Programming I Electronics Welding	Intro to Manufacturing/Mechatronics Manufacturing Woods Manufacturing Metals	*School Activities:* SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS
	10	English/Language Arts II	Geometry	Biology	World History			*Community Activities:* 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
	11	English/Language Arts III	Algebra II	Chemistry	American History			
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics	American Government or Economcis			

		COMMUNICATIONS	MATH/SCIENCE	SOCIAL SCI/ HUMANITIES	DEGREE REQUIREMENTS	FOCUS COURSES					
SOUTHEAST COMMUNITY COLLEGE	13 and 14	Public Speaking	Applied Algebra & Trig	Personal Finance	Microsoft Applications I	Principles of Management	Materials of Industry	Industrial Drafting I	Machinery's Handbook	Industrial Drafting II	Applied Hydraulic & Pneumatics
		Written Communications	College Algebra		Career Development	Basic Computer Aided Drafting	Elementary Tool Design	Plant Layout & Materials Handling	Applied Trigonometry	Electrical Fundamentals	Manufacturing Processes I
			Trigonometry			CNC Machines	Advanced Computer Aided Drafting	Manufacturing Processes II	Electrical Drafting	Quality Assurance & SPC	Time & Motion Study
			Technical Physics			Adv Geometric Dimensioning & Tolerancing	Tool & Product Design	Programmable Logic Controllers in Work Cell Design	Plastics Design and Production Problems	Autodesk Inventor	Mechanisms

6/21/2010