



**Program of Study**  
**Career Field: Industrial, Manufacturing, and Engineering Systems**  
**Career Cluster: Manufacturing**  
**Career Pathway: Production**



**Southeast Community College**

DEGREE:  
Welding

<http://www.southeast.edu/programs/weld/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/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					
<b>SOUTHEAST COMMUNITY COLLEGE</b>		<b>COMMUNICATIONS</b>	<b>MATH/SCIENCE</b>	<b>SOCIAL SCI/HUMANITIES</b>	<b>DEGREE REQUIREMENTS</b>	<b>CORE COURSES</b>				<b>TECHNICAL ELECTIVES</b>	
	13 and 14	Public Speaking	Business Mathematics	Interpersonal Relations	Microcomputer Applications	Welding Orientation	SMAW Theory & Lab	Equipment & Tools	Oxyacetylene Theory	SMAW Lab III	GMAW (SS & AL)
		Written Communications	Technical Physics			OA Welding & Cutting	GMAW Theory & Lab	Blueprint Reading & Weld Symbols	Computer Aided Drafting	Special Welding Applications	Post-Cooperative Education
						Metallurgy I	Advanced OA & Plasma Cutting	Welding Measurement & Layout	Metallurgy II	Cooperative Education	
						Pipe Welding & Cutting					