



**Program of Study**

**Career Field: Environmental and Agricultural Systems**

**Career Cluster: Agriculture, Food, and Natural Resources**

**Career Pathway: Power, Structural, and Technical Systems**



**Southeast Community College**

DEGREE:

Diesel Technology- Farm

<http://www.southeast.edu/programs/DESLF/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 Health Education Information Technology Applications I Entrepreneurship Animal Science Horticulture Agribusiness Nursery/Landscape Design	Intro to Environmental and Ag Sciences Power, Structural, & Technical Systems  <i>Plus two from the following:</i> Adv. Power, Structural, & Tech. Systems Agricultural Mechanics & Technology Welding, Advanced Welding Metal Fabrication	<i>School Activities:</i> FFA, SkillsUSA  <i>Community Activities:</i> 4-H, Grow your own garden, Recycle, Tour an agribusiness, Work on a farm during the summer, Join professional organizations in this career cluster, Part-time employment available within this career cluster, Internships available within this career cluster			
	10	English/Language Arts II	Geometry	Biology	World History						
	11	English/Language Arts III	Algebra II	Chemistry	American History						
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics or other science course	American Government or Economics						
<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	Business Mathematics	Interpersonal Relations	Microsoft Applications	Basic Electrical	Cranking Motors & Ignition Systems	Charging Systems	Power Trains I	Hand & Precision Measuring Tools	Oxyacetylene and Arc Welding
		Written Communications	College Algebra	Personal Finance	Computer Literacy	Theory of Engine Operation	Theory of Fuel System Operation	Valve Trains	Diesel Engine Overhaul & Inspection	Diesel & LPG Fuel Systems I	Basic Cab Air Conditioning
			Descriptive Physics			Diesel Fuel Injection Systems II	Mobile Hydraulics	Diesel Fuel Injection Systems Lab	Post-Cooperative Education Seminar	Cooperative Education	Farm Equip Diesel Engine Tune-up & Diagnosis
						Farm Equipment Electricity	Farm Equipment Power Trains	Advanced Air Conditioning	Planting Equipment	Harvesting Equipment	Tillage & Spraying Equipment