



**Jacksonville High School  
Career and Technology Department  
AchieveTexas Career Cluster Information**

<p style="text-align: center;"><b><u>Career Pathway Programs of Study</u></b></p>	<p style="text-align: center;"><b><u>Suggested JHS Coursework</u></b></p>	<p style="text-align: center;"><b><u>Industry Certifications</u></b></p>
<p><b><i>Power, Structural and Technical Systems</i></b></p>		
<ul style="list-style-type: none"> <li>• Agricultural Engineer</li> <li>• Welder and Cutter</li> <li>• Welder-Fitter</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Introduction to Ag Mechanics</li> <li>• Ag Metal Fabrication Technology</li> <li>• Ag Mechanics I</li> <li>• Ag Mechanics II</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> <li>• NCCER Core</li> <li>• NCCER Welding Technician</li> </ul>
<p><b><i>Agribusiness Systems</i></b></p>		
<ul style="list-style-type: none"> <li>• Financial Manager</li> <li>• Branch / Department Loan Officer</li> <li>• Commodities Agent</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Personal Skills Development in Ag</li> <li>• Agribusiness Management and Marketing</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> <li>• Microsoft Office Specialist (MOS)</li> </ul>

	<ul style="list-style-type: none"> <li>• Accounting</li> <li>• BCIS I and II</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	
<b><i>Animal Systems</i></b>		
<ul style="list-style-type: none"> <li>• Animal Nutritionist</li> <li>• Livestock Producer</li> <li>• Large Animal Caretaker</li> <li>• Veterinary</li> <li>• Veterinary Technician</li> <li>• Veterinary Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Wildlife and Recreation Management</li> <li>• Animal Science</li> <li>• Advanced Animal Science</li> <li>• Range Management and Ecology</li> <li>• Equine Science</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> <li>• Texas Parks and Wildlife Hunter Education Certification</li> </ul>
<b><i>Environmental Service Systems</i></b>		
<ul style="list-style-type: none"> <li>• Waste Water Manager</li> <li>• Water Quality Manager</li> <li>• Water Environment Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Plant and Soil Science</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> </ul>
<b><i>Food Products and Processing Systems</i></b>		
<ul style="list-style-type: none"> <li>• Agricultural Communications Specialist</li> <li>• Agricultural Sales</li> <li>• Public Relations Specialist</li> <li>• Food and Drug Inspector</li> <li>• Meat Processor</li> <li>• Meat Grader</li> <li>• Food Science Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Animal Science</li> <li>• Advanced Animal Science</li> <li>• Nutrition and Food Science</li> <li>• Journalism</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> <li>• Microsoft Office Specialist (MOS)</li> <li>• ServSafe</li> </ul>

	<ul style="list-style-type: none"> <li>• Media Technology I</li> <li>• Food Production, Management and Services</li> <li>• BCIS I and II</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	
<b><i>Plant Systems</i></b>		
<ul style="list-style-type: none"> <li>• Biotechnology Technician</li> <li>• Plant Breeder</li> <li>• Geneticist</li> <li>• Agricultural Crop Farm Manager</li> <li>• Agricultural Technician</li> <li>• Greenhouse Manager</li> <li>• Floral Designer</li> <li>• Floral Department Supervisor</li> <li>• Horticulturist</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Animal Science</li> <li>• Advanced Animal Science</li> <li>• Introduction to Horticultural Science</li> <li>• Horticulture Plant Production</li> <li>• Agricultural Communications</li> <li>• Range Management and Ecology</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> </ul>
<b><i>Natural Resources Systems</i></b>		
<ul style="list-style-type: none"> <li>• Fish Hatchery Manager</li> <li>• Aquaculture Technician</li> <li>• Aquatic Scientist</li> <li>• Marine Biologist</li> </ul>	<ul style="list-style-type: none"> <li>• Career Connections</li> <li>• Intro to World Ag Science and Technology</li> <li>• Applied Ag Science and Technology</li> <li>• Wildlife and Recreation Management</li> <li>• Diversified Career Preparation (DCP)</li> </ul>	<ul style="list-style-type: none"> <li>• OSHA CareerSafe</li> </ul>

