



# Environmental Service Systems

**Course Overview:** Focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services.

**Career Goal (O\*NET Code):** Wind Energy Technician, Environmental Engineering Technicians (17-3025), Environmental Science and Protection Technician (19-4091), BioFuel Technician (19-1031).

**Student Name:** \_\_\_\_\_  
**Grade:** \_\_\_\_\_  
**School:** \_\_\_\_\_

## SUGGESTED COURSEWORK

## EXTENDED LEARNING EXPERIENCES

Middle School	8th	<b>HS Courses:</b>				<b>Curricular Experiences:</b> <a href="#">Texas FFA Association</a>	<b>Extracurricular Experiences:</b> Agriscience Fair Farm Bureau Exchange Programs Language Immersion Programs School Newspaper Student Government UIL Academic Competitions Yearbook
	High School	9th	<b>Core Courses:</b>	English I Algebra I Biology	World Geography Physical Education Languages other than English I		
<b>Career-Related Electives:</b>			Principles of Agriculture, Food and Natural Resources				
10th		<b>Core Courses:</b>	English II Geometry Chemistry	World History Languages other than English II			
		<b>Career-Related Electives:</b>	Energy and Natural Resources Technology or Wildlife and Ecology Management				
11th		<b>Core Courses:</b>	English III Algebra II Physics	United States History			
		<b>Career-Related Electives:</b>	Advanced Environmental Technology or Biotechnology				
12th	<b>Core Courses:</b>	English IV Environmental Systems or AP Environmental Science	AP Statistics Government/Economics Floral Design (Fine Arts credit)				
	<b>Career-Related Electives:</b>	Agricultural Science Internship/Mentorship					
On-the-Job Training		Recycling Plant System Employee	Environmental Service Assistant				<b>Professional Associations:</b> <a href="#">Alpha Zeta</a> <a href="#">American Society for Agricultural and Biological Engineering</a> <a href="#">Collegiate FFA</a> <a href="#">Post-Secondary Agricultural Students Association</a> <a href="#">Soil &amp; Water Conservation Society</a> <a href="#">Texas Ground Water Association</a> <a href="#">Texas Water Quality Association</a>
	<b>Certificates</b>	Management	OSHA CareerSafe				
Postsecondary	<b>Associate Degrees</b>	<a href="#">Wind Energy and Turbine Technology</a>	<a href="#">Applied Science</a>				
	<b>Bachelor Degrees</b>	Agricultural & Biological Engineering	Agricultural Systems Management Environmental Science	Integrated Resource Management Wind Energy			
	<b>Graduate Degrees</b>	Bioenvironmental Science Environmental Studies	Renewable Natural Resources	Wind Science and Engineering			

**Career Learning Experiences:**  
 Apprenticeship  
 Career Preparation  
 Internship  
 Job Shadowing

### COLLEGE CREDIT OPPORTUNITIES -- High School

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.

**Career Options:**

Wind Turbine and Power Plant Operator	Wind Turbine Technician
Agricultural Researcher	Wind Turbine and Power Plant Manager
Agricultural Systems Manager	Resource Manager

**Career Options:**

Education Specialist	NRCS Lead Researcher
Research Developer	TCE Specialist

Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements.