



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): Water Environment Manager (11-9199), Waste Water Manager (11-9199), Water Quality Manager (11-9199).

Student Name: _____

Grade: _____

School: _____

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

Middle School	8th	HS Courses:		Curricular Experiences: Texas FFA Association	Extracurricular Experiences: Agriscience Fair Envirothon Farm Bureau Exchange Programs School Newspaper Student Government UIL Academic Competitions Yearbook		
	9th	Core Courses:	English I Algebra I Biology			World Geography Physical Education Languages other than English I	Professional Communications (or Ag Leadership I)
High School		10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II	Career Learning Experiences: Apprenticeship Career Preparation Internship Job Shadowing	Service Learning Experiences: Boy/Girl Scouts Campus Service Organizations Community Service Volunteer 4-H Peer Mentoring / Peer Tutoring
	Career-Related Electives:		Principles of Agriculture, Food and Natural Resources				
	11th	Core Courses:	English III Algebra II Physics	United States History			
		Career-Related Electives:	Advanced Environmental Technology or Biotechnology				
12th	Core Courses:	English IV AP Statistics Government/Economics	Environmental Systems or AP Environmental Science Floral Design (Fine Arts credit)	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-Related Electives:	Agricultural Science Internship/Mentorship					
On-the-Job Training		Community Water System Employee	Rural Water Supply Coop Employee	Water Well Driller's Helper	Professional Associations: Alpha Zeta American Society for Agricultural and Biological Engineering Collegiate FFA Post-Secondary Agricultural Students Association Soil & Water Conservation Society Texas Ground Water Association Texas Water Quality Association		
		NOTE: These experiences may be started and/or completed as part of the high school experience.					
Certificates		Class D Water Operator	Class I Water Treatment Specialist On-site Sewage Facility Licensing Apprentice	OSSF Licensing Installer OSSF Licensing Designated Representative	Career Options: Rural Water Supply Technician Municipal Water Department Technician		
		NOTE: Students may earn all or part of these certificates as part of the high school experience.					
Postsecondary	Associate Degrees	Water Quality Technician	Wastewater Technician		Career Options: NRCS Technician Agricultural Systems Manager TCE Agent NRCS Specialist NRCS Lead Researcher TCE Specialist		
	Bachelor Degrees	Agricultural & Biological Engineering	Agricultural Systems Management Environmental Science	Integrated Resource Management			
	Graduate Degrees	Bioenvironmental Science	Environmental Studies	Renewable Natural Resources			

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.