



Environmental Service Systems Pathway

Agriculture, Food, and Natural Resources Career Cluster



This Program of Study plan should serve as a guide in the development of secondary and post-secondary course planning for students. Courses listed within this plan are only recommended and are indicative of the courses needed to complete a Program of Study. The following items need to be considered:

- Courses in the arts and humanities are valued by post-secondary institutions for their cognitive benefits and in communicating and expressing the ideas and emotions of the human spirit.
- Post-secondary institutions have varying course requirements for admission including World Languages.

High School	Grade	English	Math	Science	Social Studies	Other Required Courses	Pathway Electives Recommended	Credit Review	
	Required Credits	4.0	3.0	3.0	3.0	3.0	2.0	Recommended Sequence for Pathway (may adjust yearly as needed) [Minimum– 8.5 elective credits needed for graduation]	Grade Graduation Credit Requirements
	Grade 9	<ul style="list-style-type: none"> • English 9 (1.0) -OR- • Enriched English 9 (1.0) 	<ul style="list-style-type: none"> • Algebra I (1.0) 	<ul style="list-style-type: none"> • Earth Science (0.5) 	<ul style="list-style-type: none"> • US History (0.5) 	<ul style="list-style-type: none"> • Level I Physical Education (0.5) • Health 9 (0.5) 	<ul style="list-style-type: none"> • Wildlife Management I (0.5) 	<ul style="list-style-type: none"> • 9-12 	4.0 Required 2.0 Elective 6.0 Total
	Grade 10	<ul style="list-style-type: none"> • English 10 (1.0) -OR- • Enriched English 10 (1.0) 	<ul style="list-style-type: none"> • Geometry (1.0) -OR- • Enriched Geometry (1.0) 	<ul style="list-style-type: none"> • Biology (1.0) 	<ul style="list-style-type: none"> • World Studies (1.0) -OR- • AP European Studies (1.0) 	<ul style="list-style-type: none"> • Level II Physical Education (0.5) 	<ul style="list-style-type: none"> • Wildlife Management II (0.5) 	<ul style="list-style-type: none"> • 10-12 	4.5 Required 1.5 Elective 6.0 Total
	Grade 11	<ul style="list-style-type: none"> • English 11 (1.0) -OR- • AP Language & Composition (1.0) 	<ul style="list-style-type: none"> • Algebra II/ Trigonometry (1.0) -OR- • Enriched Algebra II/Trigonometry (1.0) 	<ul style="list-style-type: none"> • Chemistry (1.0) • Environmental Science A (0.5) 	<ul style="list-style-type: none"> • Government (0.5) -OR- • AP United States Government and Politics (0.5) 	<ul style="list-style-type: none"> • Level III Physical Education (0.5) 	<ul style="list-style-type: none"> • Introduction to Engineering Design (IED) (TC) (1.0) 	<ul style="list-style-type: none"> • 9-12 	4.0 Required 2.0 Elective 6.0 Total
	Grade 12	<ul style="list-style-type: none"> • English 12 (1.0) -OR- • AP Literature & Composition (1.0) 	<ul style="list-style-type: none"> • See post-secondary institution for math requirements 	<ul style="list-style-type: none"> • AP Chemistry (1.0) • Environmental Science B (0.5) • Oceanography/ Meteorology (0.5) 	<ul style="list-style-type: none"> • AP Psychology (1.0) -OR- • Psychology (0.5) -OR- • Sociology/Social Issues (0.5) • AP Economics (0.5) -OR- • Economics (0.5) 		<ul style="list-style-type: none"> • Personal Law (0.5) • Grammar and Usage (0.5) -OR- • Preparation for College and Business Communications (1.0) 	<ul style="list-style-type: none"> • 9-12 • 10-12 • 11-12 	2.5 Required 3.0 Elective 5.5 Total
	Course Code Key (see course catalog for further details)			28 Credits Possible		Other Related Courses and Activities (curricular, co-curricular, and extra-curricular)			
	AP Advanced Placement AS Advanced Standing (Chippewa Valley Technical College) TC Transcribed Credit (Chippewa Valley Technical College) YO Youth Options (0.5) Course is worth 0.5 credit (1.0) Course is worth 1.0 credit			Credits Required Grades 9-12 15.0 Minimum Electives..... 8.5 Credits for Graduation.....23.5		<ul style="list-style-type: none"> • Astronomy/Geology (0.5) • Mock Trial • Forensics • World Languages • FFA (Speaking Contest & Environmental Science Contest) • Ecology Club 			

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Advisement provided through Student Services office and post-secondary transfer credits determined by college admissions counselors.

Postsecondary credit transfer information also available at <http://www.uwsa.edu/tis>

Please visit the web site of institutions listed below for any program updates.

Post-Secondary Options	Baccalaureate Degree		Associate Degree Programs		Advanced Degree	
	<p><u>University of Wisconsin - River Falls</u></p> <ul style="list-style-type: none"> • Biology • Conservation • Crop and Soil Science - including: Crop Option; Soil Option; Sustainable Agriculture Option • Environmental Science • Land Use Planning • Sustainable Management 	<p><u>University of Wisconsin - Stevens Point</u></p> <ul style="list-style-type: none"> • Human Dimensions of Natural Resources majors • Soil & Waste Resources majors • Paper Science & Engineering majors 	<p><u>Chippewa Valley Technical College</u></p> <ul style="list-style-type: none"> • Agriscience Technician • Criminal Justice – Law Enforcement 	<p><u>Gateway Technical College</u></p> <ul style="list-style-type: none"> • Civil Engineering Technology - Fresh Water Resources 	<p><u>Fox Valley Technical College</u></p> <ul style="list-style-type: none"> • Energy and Environmental Engineering Technology 	<p><u>Milwaukee Area Technical College</u></p> <ul style="list-style-type: none"> • Environmental Health and Water Quality Technology
<p>Certificate Programs, Adult Apprenticeship, On-the-Job Training or Other</p>			<p>Employment Options</p>			
<p><u>Madison Area Technical College</u></p> <ul style="list-style-type: none"> • Introduction to Wind Energy Certificate • Renewable Energy Certificate 	<p>Careers</p> <p><u>Careers Requiring a Certificate or Associate Degree</u></p> <ul style="list-style-type: none"> • Environmental Compliance-Assurance Manager • Environmental Sampling and Analysis Scientist/Technician • Hazardous Materials Handler • Hazardous Materials Technician • Health and Safety Sanitarian • Pollution Prevention and Control Technician • Recycler • Solid Waste Technical 		<p><u>Careers Requiring a Bachelor's Degree</u></p> <ul style="list-style-type: none"> • Agricultural Educator • Chemical Engineer • Environmental Engineer • Pollution Prevention and Control Manager • Solid Waste Manager • Toxicologist • Water Environment Manager • Water Quality Manager 	<p><u>Careers Requiring a Advanced Degree</u></p> <ul style="list-style-type: none"> • Environmental Engineer • Environmental Law 		