



# Natural Resources 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	
	<b>Required Credits</b>	<b>4.0</b>	<b>3.0</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>Recommended Sequence for Pathway (may adjust yearly as needed) [Minimum– 8.5 elective credits needed for graduation]</b>	<b>Grade</b>	<b>Graduation Credit Requirements</b>
	<b>Grade 9</b>	<ul style="list-style-type: none"> <li>English 9 (1.0) -OR- Enriched English 9 (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Algebra I (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Earth Science (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>US History (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>Level I Physical Education (0.5)</li> <li>Health 9 (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>Wildlife Management I (0.5)</li> <li>Horticulture I (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>9-12</li> <li>10-12</li> </ul>	4.0 Required 2.0 Elective 6.0 Total
	<b>Grade 10</b>	<ul style="list-style-type: none"> <li>English 10 (1.0) -OR- Enriched English 10 (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Geometry (1.0) -OR- Enriched Geometry (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Biology (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>World Studies (1.0) -OR- AP European Studies (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Level II Physical Education (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>Wildlife Management II (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>10-12</li> </ul>	4.5 Required 1.5 Elective 6.0 Total
	<b>Grade 11</b>	<ul style="list-style-type: none"> <li>English 11 (1.0) -OR- AP Language &amp; Composition (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Algebra II/ Trigonometry (1.0) -OR- Enriched Algebra II/Trigonometry (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Environmental Science A (0.5)</li> <li>Environmental Science B (0.5)</li> <li>Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Government (0.5) -OR- AP United States Government and Politics (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>Level III Physical Education (0.5)</li> </ul>			4.0 Required 2.0 Elective 6.0 Total
	<b>Grade 12</b>	<ul style="list-style-type: none"> <li>English 12 (1.0) -OR- AP Literature &amp; Composition (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>See post-secondary institution for math requirements</li> </ul>	<ul style="list-style-type: none"> <li>See post-secondary institution for science requirements</li> </ul>	<ul style="list-style-type: none"> <li>AP Psychology (1.0) -OR- Psychology (0.5) -OR- Sociology/Social Issues (0.5)</li> <li>AP Economics (0.5) -OR- Economics (0.5)</li> </ul>		<ul style="list-style-type: none"> <li>Grammar and Usage (0.5) -OR- Preparation for College and Business Communications (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>10-12</li> <li>11-12</li> </ul>	2.5 Required 3.0 Elective 5.5 Total
	<b>Course Code Key (see course catalog for further details)</b>			<b>28 Credits Possible</b>		<b>Other Related Courses and Activities (curricular, co-curricular, and extra-curricular)</b>			
	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			<b>Credits</b> Required Grades 9-12 ..... 15.0 Minimum Electives..... 8.5 <b>Credits for Graduation.....23.5</b>		<ul style="list-style-type: none"> <li>Oceanography/Meteorology (0.5)</li> <li>Astronomy/Geology (0.5)</li> <li>Public and private natural resources involvement (ex. Boy Scouts, Girl Scouts, 4-H, Sierra Club, etc.)</li> <li>DNR Safety Courses (ex. Hunter's Safety, Fire Training, Boater's Safety, etc.)</li> <li>World Languages</li> <li>FFA</li> <li>Ecology Club</li> <li>Fishing Club</li> </ul>			

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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		Certificate/License
		<p><u>University of Wisconsin - River Falls</u></p> <ul style="list-style-type: none"> <li>• Agricultural Education</li> <li>• Agricultural Studies</li> <li>• Biology</li> <li>• Conservation</li> <li>• Crop and Soil Science - including: Crop Option; Soil Option; Sustainable Agriculture Option</li> <li>• Environmental Science</li> <li>• Geology</li> <li>• Horticulture - including Landscape Option; Professional Option</li> <li>• Land Use Planning</li> <li>• Sustainable Management</li> </ul>	<p><u>University of Wisconsin – Eau Claire</u></p> <ul style="list-style-type: none"> <li>• Biology</li> <li>• Environmental Public Health</li> </ul> <p><u>University of Wisconsin - Stevens Point</u></p> <ul style="list-style-type: none"> <li>• Fisheries &amp; Water Resources majors</li> <li>• Forestry majors</li> <li>• Human Dimensions of Natural Resources majors</li> <li>• Soil &amp; Waste Resources majors</li> <li>• Wildlife Ecology majors</li> </ul>	<p><u>Blackhawk</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Chippewa Valley Technical College</u></p> <ul style="list-style-type: none"> <li>• Agriscience Technician</li> <li>• Landscape, Plant and Turf Management</li> </ul> <p><u>Fox Valley Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> <li>• Natural Resources Technician</li> </ul> <p><u>Gateway Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Madison Area Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul>	<p><u>Northeast Wisconsin Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Nicolet Area Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Milwaukee Area Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Waukesha County Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul> <p><u>Western Technical College</u></p> <ul style="list-style-type: none"> <li>• Fire Protection Technician</li> </ul>
	<p><b>Adult Apprenticeship, On-the-Job Training or Other</b></p>		<p><b>Employment Options</b></p>		
			<p><b>Careers</b></p> <p><u>Certificate or Associate Degree</u></p> <ul style="list-style-type: none"> <li>• Commercial Fisherman</li> <li>• Fisheries Technician</li> <li>• Forest Technician</li> <li>• Geology Technician</li> <li>• Log Grader</li> <li>• Logger</li> <li>• Park Manager</li> <li>• Pulp and Paper Manager</li> <li>• Range Technician</li> <li>• Water Monitoring Technician</li> <li>• Wildlife Manager</li> </ul>	<p><u>Bachelor's Degree</u></p> <ul style="list-style-type: none"> <li>• Agricultural Educator</li> <li>• Ecologist</li> <li>• Fish and Game Officer</li> <li>• Geologist</li> <li>• Hydrologist</li> <li>• Mining Engineer</li> </ul>	