

# Plant 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	2.0	Recommended Sequence for Pathway ( <i>may adjust yearly as needed</i> ) [Minimum– 8.5 elective credits needed for graduation]	Grade	Graduation Credit Requirements
	Grade 9	<ul style="list-style-type: none"> <li>English 9 (1.0)</li> <li>-OR-</li> <li>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>Horticulture I (0.5)</li> </ul>	<ul style="list-style-type: none"> <li>9-12</li> </ul>	4.0 Required 2.0 Elective 6.0 Total
	Grade 10	<ul style="list-style-type: none"> <li>English 10 (1.0)</li> <li>-OR-</li> <li>Enriched English 10 (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Geometry (1.0)</li> <li>-OR-</li> <li>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)</li> <li>-OR-</li> <li>AP European Studies (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Level II Physical Education (0.5)</li> </ul>			4.5 Required 1.5 Elective 6.0 Total
	Grade 11	<ul style="list-style-type: none"> <li>English 11 (1.0)</li> <li>-OR-</li> <li>AP Language &amp; Composition (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Algebra II/ Trigonometry (1.0)</li> <li>-OR-</li> <li>Enriched Algebra II/Trigonometry (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Chemistry (1.0)</li> </ul>	<ul style="list-style-type: none"> <li>Government (0.5)</li> <li>-OR-</li> <li>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
	Grade 12	<ul style="list-style-type: none"> <li>English 12 (1.0)</li> <li>-OR-</li> <li>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)</li> <li>-OR-</li> <li>Psychology (0.5)</li> <li>-OR-</li> <li>Sociology/Social Issues (0.5)</li> <li>-OR-</li> <li>AP Economics (0.5)</li> <li>-OR-</li> <li>Economics (0.5)</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 TC Transcribed Credit YO Youth Options (0.5) Course is worth 0.5 credit (0.75) Course is worth 0.5 credit (non-TC) or 0.75 credit (TC) (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>Accounting I (0.5)</li> <li>Biotechnology (TC) (0.75)</li> <li>Agriculture., Food, &amp; Natural Resources Apprenticeship (1.0)</li> <li>AP Statistics (1.0)</li> <li>Precalculus (1.0)</li> <li>AP Chemistry (1.0)</li> <li>Preparation for College and Business Communications (1.0)</li> <li>World Languages</li> <li>Drawing I(0.5)</li> <li>Painting I (0.5)</li> <li>Commercial Art I (0.5)</li> <li>Introduction to Engineering Design (IED) (TC) (1.0)</li> <li>FFA</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.*

	Baccalaureate Degree	Associate Degree Programs	Certificate/License	
<b>Post-Secondary Options</b>	<p><u>University of Wisconsin - River Falls</u></p> <ul style="list-style-type: none"> <li>• Agricultural Education</li> <li>• Agricultural Studies</li> <li>• Biotechnology</li> <li>• Conservation</li> <li>• Crop and Soil Science - including: Crop Option; Soil Option; Sustainable Agriculture Option</li> <li>• Environmental Science</li> <li>• Horticulture - including Landscape Option; Professional Option</li> <li>• Land Use Planning</li> </ul>	<p><u>University of Wisconsin - Stevens Point</u></p> <ul style="list-style-type: none"> <li>• Conservation Biology</li> <li>• Environmental Studies</li> <li>• Forestry</li> <li>• Land Use Planning</li> <li>• Wildlife Ecology</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>Blackhawk Technical College</u></p> <ul style="list-style-type: none"> <li>• Agribusiness Specialist (Diploma Program)</li> <li>• Farm Business – Production Management (Diploma Program)</li> </ul> <p><u>Madison Area Technical College</u></p> <ul style="list-style-type: none"> <li>• Biotechnology Laboratory Technician</li> </ul>	
		<b>Adult Apprenticeship, On-the-Job Training or Other</b>	<b>Employment Options</b>	
		<b>Careers</b>	<ul style="list-style-type: none"> <li>• Agricultural Educator</li> <li>• Agricultural Journalist</li> <li>• Biotechnology Lab Technician</li> <li>• Botanist</li> <li>• Commodity Marketing Specialist</li> <li>• Golf Course Manager</li> <li>• Green House Manager</li> <li>• Plant Breeder and Geneticist</li> <li>• Rancher</li> </ul>	