



Horticulture Science Career Pathway

Education Planning Guide for Middle School and Beyond



This Career Pathway, along with other career planning materials, serves as a guide to assist students in the Auburn School District in developing a relevant middle-to-high school plan that will prepare them for further education and/or employment in the **Agriculture Education and Science Career Cluster**. The career pathway outlined below can be individualized to meet each learner's education and career goals. It allows students to earn high school credits while completing coursework in middle school, earn college credits while completing coursework within high school, and apply those credits toward attainment of a college certificate and/or degree. It is important to share and review this plan with a parent/guardian and school counselor.

EDUCATION LEVELS	GRADE	English/ Language Arts	Social Studies	Science	Math	Other Required Courses Other Electives Recommended Electives Learner Activities Leadership Activities	Career & Technical Courses And/or Degree Major Courses	Auburn School District Graduation Requirements		
Interest Inventory Administered and Plan of Study Initiated for all Learners										
MS	8	Successfully complete required coursework for 6th, 7th and 8th grade, and these electives →			Art Survey, STEM Fundamentals of IT, STEM Mechatronics					
	SECONDARY	9	Language Arts	(.5) World Studies or AP Human Geography	Science (1.0) Next Gen or Biology	Algebra I	(2.0) Credit from Fine Arts or Course Equivalencies (1.5) Credits From Fitness Courses	Orientation or Career Choices	Horticulture Science*	
		10	Language Arts	Global Issues (.5) or AP Euro	Science (1.0) Next Gen or Chemistry	Geometry		(.5) 10th Grade Health	Minimum of two years of the same world language are required for students planning to enroll at a four-year university	Environmental Horticulture 1 & 2*
		11	American Literature 1, 2	U. S. History or AP U. S. History	Chemistry	Advanced Algebra and Trig				Environmental Horticulture 3 & 4*
		College Placement Assessments-Academic/Career Advisement Provided								
12	Senior English Electives	Civics (.5) and Elective (.5) or AP American Government (1.0)	Physics or AP Biology or AP Chemistry	AP Statistics or Pre-Calculus				Floral Design and Marketing 1, 2*		

Credit Requirements
(24.0 credits total):

4.0 credits - English
 3.0 credits - Social Studies
 3.0 credits – Math
 3.0 credits - Science
 1.5 credits – Fitness
 0.5 credits – Health
 2.0 credits – Arts **
 2.0 credits – World Language **
 1.0 credits – Career and Technical
 4.0 credits - Electives

Additional Requirements:

- High School and Beyond Plan
- Culminating Project/Portfolio
- Certificate of Academic Achievement or Approved Alternative

Students who earn a “C” or better in the above () courses may be eligible for college credit. See page 3 for more information. **Credits may be applied in a chosen career pathway.





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POST SECONDARY	<p>The Post-High School program options listed below for this Career Pathway represents just some examples of options available within the Puget Sound area, including programs where agreements for dual credit exist between the college and school district. For other options available related to this program of study, visit your career center or the websites of local colleges.</p>	
	Apprenticeship Opportunities	<p>To learn more about apprenticeships in this program, go to: Apprenticeship Registration & Tracking Examples: Landscape Construction Worker, Landscape Technician, Greenhouse/Technician/Grower</p>
	Earn Certificate and Enter Workforce	<p>To learn more about certificate programs, go to: Lake Washington Technical College, South Seattle College Examples: Environmental Horticulture, Horticulture, Floristry Option, Floristry, Landscape Horticulture</p>
	Military	<p>To learn more about Military education and training programs, go to: todaysmilitary.com , defense.gov</p>
	Associate Degree Transitions	<p>To learn more about Associate degrees, go to: Green River College , Lake Washington Technical College, Edmonds College Examples: Natural Resources, Earth Science, Environmental Horticulture, Horticulture, Floristry Option, Floristry, Landscape Design, Ornamental Horticulture - Nursery/Greenhouse, Sustainable Landscape Management</p>
	4 year University	<p>To learn more about Bachelor and beyond degrees, go to: University of Washington, Washington State University, Evergreen State College Examples: Forest Resource Management, Natural Resources, Restoration Ecology, Environmental Horticulture, Agricultural Biotechnology, Fruit & vegetable Management, Agricultural and Food Systems, Viticulture & Enology, Environmental Studies.</p>

Students intending to earn an Associate Degree and transition to a 4-year University can use the below section to list appropriate classes.

COURSE CODE	CREDIT	COURSE NAME	COURSE CODE	CREDIT	COURSE NAME



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The Horticulture Career Pathway prepares students in the general production and processing of domesticated plants, shrubs, flowers, foliage, trees, groundcovers, and related plant materials; the management of technical and business operations connected with horticultural services, landscape management and design; and the basic scientific principles needed to understand plants and their management and care.

Occupational Information

The following represent occupations within this field and their average annual earnings and openings based on data from the Washington State Employment Security Department. For more information about these and other occupations within this field, go to <https://esd.wa.gov/labormarketinfo>

<u>Occupation</u>	<u>Washington State Projected Openings</u>		<u>Earnings</u>
	<u>2016-2026</u>		
Landscaping and Grounds keeping Workers	1,269		\$30,572 yr.
Farmworkers and Laborers, Crop, Nursery and Greenhouse	2,105		\$25,190 yr.
Landscape Architects	35		\$62,503 yr.
Floral Designers	76		\$29,752 yr.
Foresters	10		\$57,430 yr.
Plant Scientist			\$67,023 yr.
Geneticist			\$72,922 yr.

Post-High School Connections

The following courses within this program of study may be eligible for college credit at several local colleges if students earn a "C" or better:

<u>High School Course</u>	<u>Credits Possible</u>	<u>College</u>	<u>College Course</u>
Marketing 1, 2	10	Green River Community College	BUS 121
Math for Business & Personal Finance	5	Green River Community College	BUS E110
	5	Renton Technical College	AMATH 171

Student Leadership Development



The National FFA Organization is dedicated to making a positive difference in the lives of students by developing their potential for leadership, personal growth and career success through agricultural education.

For additional leadership opportunities at your high school, please contact a Career and Technical Education teacher.

Scholarship Opportunities

For local, state, and national scholarship opportunities, please visit your counseling and/or career center, Career Cruising www.CareerCruising.com, WOIS www.wois.org, thecareemap.org or Fast Web www.FastWeb.com

For more information about this Career Pathway, contact an instructor, a school counselor or a career specialist.

