



PROGRAM OF STUDY



Career Cluster: Agriculture, Food, and Natural Resources

Career Cluster Pathway: Animal Systems

This Career Pathway Program of Study can serve as a guide along with other career planning materials as learners continue on a career path. Courses listed within this program are only recommended coursework and should be individualized to meet each learner's education and career goals. **Note:** Many items have links to external resources with more information.

REQUIRED CREDITS	GRADE	English/ Language Arts (4.0 credits)	Social Studies (2.5 credits)	Math (2.0 credits)*	Science (2.0 credits)	Fine Arts (1.0 credits)	Health/ Fitness (2.5 credits)**	Electives (6.5 credits)	Related Career & Technical/ Occupational (1.0 credits) Certificate and Tech Prep (notation on HS and TP alignment)	SAMPLE Occupations Relating To This Pathway (*indicates job in high demand) (☉ indicates a "green" job)	
SECONDARY SAMPLE COURSE OFFERINGS	9	English 1 or Honors English 1	Pacific Northwest History (.5)	Algebra I Geometry	Integrated Science or Adv Int Science	Credits from Art Courses or CTE Equivalent	Health (.5)	Elective courses (6.5) and Project Me and Other CAA requirements	ASD CTE COURSE OPTIONS Horticulture Natural Resources Natural Resources II Biotechnology Marine Biology Work Based Learning CTE Grad Project LEADERSHIP FFA TECH PREP ARTICULATIONS Natural Resources 1 – Grays Harbor College (5 cr.) Applied Biology /Natural Resources I – Grays Harbor College (5 cr.) Horticulture - South Puget Sound Community College (5 cr.) CERTIFICATION Work Readiness Credential	Little or No Preparation <ul style="list-style-type: none"> Fishers and Related Fishing Workers Farm workers, Farm and Ranch Animals Some Preparation <ul style="list-style-type: none"> Nonfarm Animal Caretakers* Agricultural Equipment Operators Animal Trainers Hunters and Trappers Medium Preparation <ul style="list-style-type: none"> Animal Breeders ☉ Animal Waster Biomethane Gas Collection System Technician First Line Supervisors of Animal Care workers Veterinary Technologists and Technicians* Considerable Preparation <ul style="list-style-type: none"> Agricultural Inspectors CTE Teacher Purchasing Agents and Buyers, Farm Products Fish and Game Wardens ☉ Fisheries Biologist ☉ Marine and Fish Biologist Hydro-Electric Mechanical Engineer Extensive Preparation <ul style="list-style-type: none"> Veterinarians* Zoologists and Wildlife Biologists 	
	10	English 2 or Honors English 2	US History	*Class of 2013 (add't 1.0 credit) Algebra II	Biology <u>or</u> AP Biology <u>or</u> Biotechnology <u>or</u> Horticulture <u>or</u> Natural Resources I		Credits from Health and Fitness Courses				**Successfully completing two years of physical education and one semester of health is required for high school graduation
	11	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II	Pre-Calculus Calculus	Science Electives						
	12	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II <u>and</u> CWP	(Students must pass a math competency test or have four years of math credits)	CTE Equivalent		Science Electives				

Technical Certification <i>(instruction provided through certified training and/or testing centers)</i>	Apprenticeship Opportunities	2-yr or ATA Degree <i>(Find specific colleges at www.checkoutcollege.com)</i>	4 –yr Degree or Advanced Training	<p style="text-align: center;">Apprenticeship Opportunities</p> <p>To learn more about Apprenticeship, visit Labor and Industries website.</p> <p style="text-align: center;">This pathway does not currently have any active apprenticeships.</p>
	<p>To learn more about Apprenticeship, visit Labor and Industries website.</p> <p>This pathway does not currently have any active apprenticeships.</p>	<p><u>Animal Science Tech</u></p> <ul style="list-style-type: none"> Yakima Community College <p><u>Aquaculture</u></p> <ul style="list-style-type: none"> Grays Harbor College <p><u>Dog/Pet/Animal Grooming</u></p> <ul style="list-style-type: none"> Northwest School Of Animal Massage <p><u>Equestrian/Equine Studies, Horse Management and Training</u></p> <ul style="list-style-type: none"> Northwest School Of Animal Massage <p><u>Fisheries Tech</u></p> <ul style="list-style-type: none"> Bellingham Technical College Grays Harbor College Heritage University Peninsula College <p><u>Horseshoeing</u></p> <ul style="list-style-type: none"> Walla Walla Community College <p><u>Veterinarian Assistant/Tech</u></p> <ul style="list-style-type: none"> Bellingham Technical College Pierce Community College Yakima Valley Community College <p><u>Wildlife & Wildlands Science Mgmt</u></p> <ul style="list-style-type: none"> Spokane Community College 	<p><u>Cell and Molecular Biology</u></p> <ul style="list-style-type: none"> University of Washington-Seattle Campus <p><u>Entomology</u></p> <ul style="list-style-type: none"> Washington State University <p><u>Fishing and Fisheries Sciences and Management</u></p> <ul style="list-style-type: none"> University of Washington-Seattle Campus <p><u>Wildlife and Wildlands Management</u></p> <ul style="list-style-type: none"> University of Washington-Seattle Campus Washington State University Spokane Community College <p><u>Zoology</u></p> <ul style="list-style-type: none"> University of Washington-Seattle Campus Western Washington University Washington State University <p><u>CTE Secondary Education Teacher</u></p> <ul style="list-style-type: none"> Education Degree in a CTE program area with 2000 hours of related work experience Industry Route Certificate requires 6000 hours of work experience in the field and completion of a state approved CTE Preparation Program along with passage of Basic Skills Math and English 	

*Data acquired from www.workforceexplorer.com, www.sbctc.edu, www.careerclusters.org, and www.edf.org/cagreenjobs,
 Adapted from <http://www.nthurston.k12.wa.us/education/components/scrapbook/default.php?sectiondetailid=34988>