



Natural Resource Systems Program of Study



Education Planning Guide for Middle School and Beyond

This program of study, 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 Science, Technology, Engineering and Math career cluster. The program of study 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.

	Grade	English	Social Studies	Science	Math	Health/ Fitness	Arts	Career and Technical	Related Electives	Auburn School District Graduation Requirements
Auburn SD Component of Program of Study	Middle School	Successfully complete required coursework for 6 th , 7 th and 8 th grade, and these electives →						Kitchen Science, STEM Mechatronics		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
	9	Language Arts	World Studies (.5) or AP Human Geography	Science (1.0) Next Gen or Biology	Algebra I			Horticulture Science*	Orientation or Career Choices	
	10	Language Arts	Global Issues (.5) or AP Euro	Science (1.0) Next Gen or Chemistry	Geometry	10 th Grade Health (.5)		CTE Biology Science*	Minimum of two years of the same world language are required for students planning to enroll at a four-year university	
	11	American Literature 1, 2	U. S. History or AP U. S. History	Chemistry	Advanced Algebra and Trig	1.5 Credits From Fitness Courses	2.0 Credit from Fine Arts or Course Equivalencies	Natural Resources 1, 2		
	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			Natural Resources 3, 4 or AP Environmental Science CTE		

***Students who earn a "B" or better in these courses may be eligible for college credit. See page 2 for more information. **Credits may be applied in a chosen career pathway**

	Apprenticeship Opportunities	Earn a Certificate and Enter the Workforce	Earn an Associate's Degree and transition to a 4-year university or enter the workforce	Earn a 4-year college degree, and then enter the workforce
Post - High Program of Study	To learn more about apprenticeships in this program, go to: Apprenticeship Registration & Tracking Environmental Control Painter Environmental Control Systems Craft Worker	Renton Technical College Field Survey Technician Land Survey Technician Green River Community College Geographic Information Systems Water Distribution	Green River Community College Geographic Information Systems Natural Resources Water/Wastewater Technology Highline Community College Environmental Science Oceanography	University of Washington Environmental Health Oceanography Washington State University Environmental Science and Regional Planning Western Washington University Environmental Policy Environmental Science Eastern Washington University Environmental Science

The Post-High School program options listed above for this Program of Study represent 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.



Natural Resource Systems Program of Study

Education Planning Guide for Middle School and Beyond

The Natural Resource Systems Program of Study gives students hands-on experience while learning the major concepts and themes of biology through laboratory and field experiences. Courses focus on the ecological interactions between living and physical systems.

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 2016-2026</u>	<u>Earnings</u>
Environmental Engineers	10	\$102,776 yr.
Environmental Engineering Technicians	21	\$ 60,896 yr.
Environmental Science and Protection Technicians	191	\$ 82,105 yr.
Chemical Technician	35	\$ 43,595 yr.
Natural Sciences Managers	149	\$123,864 yr.
Occupational Health and Safety Specialist	112	\$ 75,248 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 "B" or better:

High School Course
Natural Resources

Credits Possible
5

College
Green River Community College

College Course
NATRS 100

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 information about this leadership opportunity, talk with a Career and Technical Education instructor.

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, thecareermap.org or Fast Web www.FastWeb.com.

For more information about this Program of Study, contact an instructor, a school counselor or a career specialist.