

Science, Technology, Engineering & Math (STEM)



Program of Study

Career Cluster: Science, Technology, Engineering and Math **Career Pathways:** Engineering and technology; Science and math

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. The courses outlined below are only RECOMMENDATIONS.

Course offerings may vary from high school to high school. Additionally, a PPR (Personalized Pathway Requirement) may be used in lieu of some of the World Language and/or Art credit requirement. See your high school counselor for additional graduation requirement information.

PPR - Personal Pathway Requirement

*World Language - requirement can be met through a PPR however **world language is required** at 4-year universities and is highly recommended for individuals going into STEM

* *Art – 1.0 credit may be met through a PPR

EDUCATION LEVELS	G R A D	English/ Language Arts	Math	Science	Social Studies	Other Requirements	Electives	Summer School Offerings High School Credit Free of Charge
MS	6-8	Grade Level ELA	Grade Level Math	Grade Level Science	Grade Level Social Studies		Tech Foundations Comp Sci Discoveries I & II Video Game Design I & II	Summer School Available After the 8 th Grade Year
High School	9	ELA 9	Integrated Math I OR Intensive Integrated Math I	Physical Science		Health (.5) PE (.5) World Language* Art**	CTE & Elective Options to be Taken Grades 9-11 STEM I STEM II STEM III APROSPACE Machining & Fabrication Aerospace Composites Automotive Technology DigiPen Video Game Development Technical Writing IT/Cybersecurity	Aerospace Machining & Fabrication Aerospace Composites Automotive Technology
	10	ELA 10	Integrated Math II	Biology OR AP Biology	World History OR AP World History	PE World Language* Art**		
	11	ELA 11 OR AP Language	Integrated Math III OR Applied Algebra 2 OR Consumer Math 3	Chemistry	US History OR AP US History	PE	Junior Year Options at PCSC IT/Cybersecurity Video Game Development Aerospace Composites Aerospace Machining	See PCSC Summer School application for additional course offerings at other PCSC summer school locations. Offerings also include CTE classes that may satisfy academic credit graduation
	12	ELA 12 OR AP Lit	Pre-Calculus OR AP Calculus OR PCSC 1.0 Technical/3 rd Year Math Credit - IT/Cybersecurity	Physics	Civics & Economics OR AP Government		Senior Year Options at PCSC IT/Cybersecurity DigiPen Video Game Development Aerospace Composites Aerospace Machining	requirements – specifically in art, PE, and health.
Credit Equivalency, Certifications & Dual Credit	CTE Scier PCS0 1.0 T	High School Credit Equivalency: CTE Science PCSC High School Credit Equivalency: 1.0 Technical Math/3 [™] year Math 3.5 CTE/Elective		Certifications Earned at OHS: None Certifications Earned at PCSC: PC Pro Network Pro Security Pro Ethical Hacker Pro A+ *Optional: CompTIA & ETA Certifications			Articulation/Dual Credit: (DC) OHS – AP Comp Sci – up to 10 credits PCSC: Bates Technical College – Up to 18 credits Clover Park Technical College – Up to 9 credits Pierce College – Up to 10 credits Articulation agreements and number of credits are subject to change	



TSA Technology Student Association OMS TSA Advisor: Oliver Chadwick chadwicko@orting.wednet.edu OHS TSA Advisor:
Denise Thompson
thompsond@orting.wednet.edu

Additional Program Information

Course Description

Students in STEM classes learn and practice skills that prepare them for diverse post-high school education and training opportunities, from apprenticeships and two-year college programs to four-year college and graduate programs.

Course Descriptions See the OHS Course Guide in Xello for STEM I STEM II STEM III AP Computer Science Principles AP Computer Science A Programming Physics		Local Public Post-Secondary Options Lake Washington Technical College South Seattle College Renton Technical College Columbia Basin College Eastern Washington University Western Washington University Central Washington University Washington State University University of Washington			
Careers & Job Outlook There are more than 380 related careers. Visit Care and trends Here is a small sample: Occupation	er Bridge to explore all jobs Annual Salary	Additional career and outlook information can be found on the following websites www.bls.gov www.careerbridge.wa.gov Xello			
Engineer: Aerospace/Chemical/Materials/Civil Mechanical Engineering Tech Technical Writer Statistician Chemist Atmospheric or Space Scientist Nuclear Technician Mathematician	\$92,000 - 106,730 \$64,000 \$81,810 \$94,180 \$81,620 \$90,610 \$71,120 \$114,400				

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Coordinator and Civil Rights Coordinator Chris Willis Director of Student Support Services at 360-893-6500.