



PROGRAM OF STUDY

Career Cluster: Information Technology

Career Cluster Pathway: Network 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		Health (.5)		ASD CTE COURSE OPTIONS Digital Communications Digitools Intro to Web Page Design Advanced Web Page Design Computer Programming I Computer Programming II Computer Applications Computer Programming I Computer Programming II Work Based Learning CTE Grad Project LEADERSHIP Skills USA FBLA TECH PREP ARTICULATIONS Digital Communications/Digitools – Grays Harbor College (3cr.) Computer Applications – Grays Harbor College (12cr.) Computer Programming II – South Puget Sound Community College (5cr.) CERTIFICATION MOS Certification Work Readiness Credential	Medium Preparation <ul style="list-style-type: none"> • Computer Operators • Computer Support Specialists* • Computer, Automated Teller, and Office Machine Repairers* • Information Systems Operator • Network Systems and Data Communications Analysts* • Network Technician Considerable Preparation <ul style="list-style-type: none"> • Computer Programmers* • Computer Security Specialist • Computer Software Engineers, Applications* • Computer Software Engineers, Systems Software* • Computer Systems Analysts* • CTE Teacher • Data Communications Analyst • Database Administrators* • Information Systems Administrator • Information Technology Engineer • Network and Computer Systems Administrators/Engineers* • Network Operations Analyst • Telecommunications Network Technician • Web Design Extensive Preparation <ul style="list-style-type: none"> • Computer and Information Systems Managers/Engineers*
	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			Elective courses (6.5)		
	11	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II	Pre-Calculus	Credits from Art Courses or CTE Equivalent		Credits from Health and Fitness Courses	Project Me and Other CAA requirements		
	12	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II <u>and</u> CWP	Calculus	Science Electives		**Successfully completing two years of physical education and one semester of health is required for high school graduation			
Y ED UC	Technical Certification (instruction provided through certified training and/or testing centers)			Apprenticeship Opportunities			2-yr or ATA Degree (Find specific colleges at www.checkoutcollege.com)		4 –yr Degree or Advanced Training	

<p><u>Computer Science</u></p> <ul style="list-style-type: none"> Heritage University <p><u>Computer Programming</u></p> <ul style="list-style-type: none"> South Puget Sound Community College and various other technical and community colleges <p><u>Computer Systems Networking and Telecommunications</u></p> <ul style="list-style-type: none"> Grays Harbor College and various other technical and community colleges <p><u>Information Processing</u></p> <ul style="list-style-type: none"> Grays Harbor College and various other technical and community colleges 	<p>To learn more about Apprenticeship, visit Labor and Industries website.</p> <p>Follow these steps to learn about the specific apprenticeships available in this pathway:</p> <p><u>STEP 1:</u> Link to Apprenticeship Registration and Tracking System</p> <p><u>STEP 2:</u> Search by using key words below or the SOC code listed</p> <ul style="list-style-type: none"> School Computer Technician I/II/III (15-1041) <p><u>STEP 3:</u> Click "View" and scroll down to find contact name and program standards for qualifications and how to apply</p>	<p><u>Computer & Information Sciences</u></p> <ul style="list-style-type: none"> Heritage University ITT Technical Institute Walla Walla College <p><u>Computer Programming</u></p> <ul style="list-style-type: none"> South Puget Sound Community College and various other technical and community colleges <p><u>Computer Systems Networking and Telecommunications</u></p> <ul style="list-style-type: none"> Grays Harbor College and various other technical and community colleges <p><u>Information Processing</u></p> <ul style="list-style-type: none"> Grays Harbor College and various other technical and community colleges <p><u>Data Modeling/Warehousing and Database Administration</u></p> <ul style="list-style-type: none"> South Puget Sound Community College and various other technical and community colleges <p><u>Information Technology</u></p> <ul style="list-style-type: none"> ITT Technical Institute <p><u>Microcomputer Applications</u></p> <ul style="list-style-type: none"> Grays Harbor College and various other technical and community colleges <p><u>Systems, Networking & LAN/WAN Mgmt</u></p> <ul style="list-style-type: none"> Green River Community College Highline Community College Pierce Community College Spokane Community College 	<p><u>Computer Programming</u></p> <ul style="list-style-type: none"> City University <p><u>Computer & Information Sciences</u></p> <ul style="list-style-type: none"> Central Washington University City University DeVry University-Washington Eastern Washington University Gonzaga University Henry Cogswell College Heritage University ITT Technical Institute Pacific Lutheran University Saint Martin's University Seattle Pacific University Seattle University University of Phoenix-Seattle Campus University of Puget Sound University of Washington Walla Walla College Washington State University Western Washington University Whitworth College <p><u>Information Technology</u></p> <ul style="list-style-type: none"> University of Phoenix-Seattle Campus University of Washington City 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 	
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*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>