

# PROGRAM OF STUDY



Career Cluster: Health Science

Career Cluster Pathway: Diagnostic Services

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  <u>or</u>  CTE Equivalent	Health (.5)	Elective courses (6.5)  <b>and</b>  Project Me  <b>and</b>  Other CAA requirements	<b>ASD CTE COURSE OPTIONS</b>  Digital Communications Digitools Food and Nutrition Sports Medicine Work Based Learning CTE Grad Project  <b>LEADERSHIP</b>  Skills USA  <b>TECH PREP ARTICULATIONS</b>  Digital Communications/Digitools – Grays Harbor College (3cr.)  <b>CERTIFICATION</b>  Work Readiness Credential	<b>Some Preparation</b> <ul style="list-style-type: none"> <li>Pharmacy Technicians</li> <li>Medical and Clinical Laboratory Technicians*</li> <li>Emergency Medical Technicians and Paramedics*</li> </ul> <b>Medium Preparation</b> <ul style="list-style-type: none"> <li>Cardiovascular Technologist*</li> <li>Central Supply Technician</li> <li>Clinical Lab Technician*</li> <li>Computer Tomography (CT) Technologist</li> <li>Electrocardiographic (ECG) Technician</li> <li>Histotechnician</li> <li>Magnetic Resonance (MR) Technologist</li> <li>Mammographer</li> <li>Nuclear Medicine Technologist</li> <li>Opticians, Dispensing*</li> <li>Pathology Assistant</li> <li>Plebotomist</li> <li>Positron Emission Tomography (PET) Technologist</li> <li>Radiologic Technologist/Radiographer</li> <li>Veterinary Technologists and Technicians*</li> <li>Surgical Technologists*</li> <li>Diagnostic Medical Sonographers*</li> <li>Psychiatric Technicians</li> <li>Cardiovascular Technologists and Technicians*</li> <li>Nuclear Medicine Technologists*</li> <li>Occupational Health and Safety Technicians</li> <li>Dietetic Technicians</li> <li>Respiratory Therapy Technicians</li> </ul>	
	10	English 2 or Honors English 2	US History	*Class of 2013 (add't 1.0 credit)  <u>or</u>  Algebra II  <u>or</u>	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  <u>or</u>  Calculus  <u>or</u>							
	12	English Electives or Business English	World History <u>or</u> Economics <u>or</u> Economics II <b>and</b> CWP	CTE Equivalent  (Students must pass a math competency test or have four years of math credits.)							

<b>Technical Certification</b> <i>(instruction provided through certified training and/or testing centers)</i>	<b>Apprenticeship Opportunities</b>	<b>2-yr or ATA Degree</b> <i>(Find specific colleges at <a href="http://www.checkoutcollege.com">www.checkoutcollege.com</a>)</i>	<b>4 –yr Degree or Advanced Training</b>	<b>Considerable Preparation</b>
<p><b><u>Dispensing Optician</u></b></p> <ul style="list-style-type: none"> <li>• Highline Community College</li> </ul> <p><b><u>Forensic Science and Technology</u></b></p> <ul style="list-style-type: none"> <li>• Pierce College</li> </ul> <p><b><u>Occupational Safety and Health Technician</u></b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> </ul> <p><b><u>Pharmacy Technician/Assistant</u></b></p> <ul style="list-style-type: none"> <li>• Apollo College</li> <li>• Bryman College</li> <li>• Cambridge College-Seattle</li> <li>• Clark College</li> <li>• Clover Park Technical College</li> <li>• Edmonds Community College</li> <li>• Everest College</li> <li>• Grays Harbor College</li> <li>• Lower Columbia College</li> <li>• Pima Medical Institute</li> <li>• Renton Technical College</li> <li>• Seattle Community College-North Campus</li> <li>• Spokane Community College</li> <li>• Tacoma Community College</li> <li>• Yakima Valley Community College</li> </ul> <p><b><u>Surgical Technician</u></b></p> <ul style="list-style-type: none"> <li>• Bellingham Technical College</li> <li>• Cambridge College-Seattle</li> <li>• Clover Park Technical College</li> <li>• Renton Technical College</li> <li>• Seattle Community College-Central Campus</li> </ul> <p><b><u>Veterinary Technician</u></b></p> <ul style="list-style-type: none"> <li>• Apollo College</li> <li>• Bellingham Technical College</li> <li>• Lower Columbia College</li> <li>• Pima Medical Institute</li> </ul>	<p>To learn more about Apprenticeship, visit <a href="#">Labor and Industries</a> website.</p> <p>Follow these steps to learn about the specific apprenticeships available in this pathway:</p> <p><b>STEP 1:</b> Link to <a href="#">Apprenticeship Registration and Tracking System</a></p> <p><b>STEP 2:</b> Search by using key words below or the SOC code listed</p> <ul style="list-style-type: none"> <li>• Computed Tomography (29-2034)</li> <li>• Magnetic Resonance Imaging (24-2034)</li> </ul> <p><b>STEP 3:</b> Click “View” and scroll down to find contact name and program standards for qualifications and how to apply</p>	<p><b><u>Dispensing Optician</u></b></p> <ul style="list-style-type: none"> <li>• Seattle Community College</li> </ul> <p><b><u>Forensic Science and Technology</u></b></p> <ul style="list-style-type: none"> <li>• Green River Community College</li> </ul> <p><b><u>Occupational Safety and Health Technician</u></b></p> <ul style="list-style-type: none"> <li>• Bates Technical College</li> </ul> <p><b><u>Occupational Therapy Assistant</u></b></p> <ul style="list-style-type: none"> <li>• Green River Community College</li> </ul> <p><b><u>Physical Therapy Assistants</u></b></p> <ul style="list-style-type: none"> <li>• Green River Community College</li> <li>• Spokane Falls Community College</li> <li>• Whatcom Community College</li> </ul> <p><b><u>Respiratory Care Technician</u></b></p> <ul style="list-style-type: none"> <li>• Highline Community College</li> <li>• Seattle Community College-Central Campus</li> </ul> <p><b><u>Surgical Technician</u></b></p> <ul style="list-style-type: none"> <li>• Renton Technical College</li> <li>• Spokane Community College</li> </ul> <p><b><u>Veterinary Assistant</u></b></p> <ul style="list-style-type: none"> <li>• Pierce College at Fort Steilacoom</li> <li>• Yakima Valley Community College</li> </ul>	<p><b><u>Dental Hygienist</u></b></p> <ul style="list-style-type: none"> <li>• University of Washington</li> <li>• Eastern Washington University</li> </ul> <p><b><u>Dentistry</u></b></p> <ul style="list-style-type: none"> <li>• University of Washington</li> </ul> <p><b><u>Foods and Nutrition Studies</u></b></p> <ul style="list-style-type: none"> <li>• Bastyr University</li> <li>• Central Washington University</li> <li>• Seattle Pacific University</li> <li>• University of Washington</li> <li>• Washington State University</li> </ul> <p><b><u>Medical Technology</u></b></p> <ul style="list-style-type: none"> <li>• Seattle University</li> <li>• University of Washington</li> </ul> <p><b><u>Occupational Safety and Health Technician</u></b></p> <ul style="list-style-type: none"> <li>• Central Washington University</li> </ul> <p><b><u>Orthotics/Prosthetics</u></b></p> <ul style="list-style-type: none"> <li>• University of Washington</li> </ul> <p><b><u>Physical Therapy</u></b></p> <ul style="list-style-type: none"> <li>• Eastern Washington University</li> <li>• University of Puget Sound</li> <li>• University of Washington</li> </ul> <p><b><u>Recreational Therapy</u></b></p> <ul style="list-style-type: none"> <li>• Eastern Washington University</li> </ul> <p><b><u>Speech Pathology/Audiology</u></b></p> <ul style="list-style-type: none"> <li>• Eastern Washington University</li> <li>• University of Washington</li> <li>• Washington State University</li> <li>• Western Washington University</li> </ul> <p><b><u>Veterinary Clinical/Medicine</u></b></p> <ul style="list-style-type: none"> <li>• University of Washington</li> <li>• Washington State University</li> </ul> <p><b><u>CTE Secondary Education Teacher</u></b></p> <ul style="list-style-type: none"> <li>• Education Degree in a CTE program area with 2000 hours of related work experience</li> <li>• 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</li> </ul>	<p><b><u>Considerable Preparation</u></b></p> <ul style="list-style-type: none"> <li>• Medical and Clinical Laboratory Technologists*</li> <li>• Occupational Health and Safety Specialists</li> <li>• Forensic Science Technicians</li> <li>• Cytogenetic Technologist</li> <li>• Cytotechnologist</li> <li>• CTE Teacher</li> <li>• Exercise Physiologist</li> <li>• Geneticist</li> <li>• Histotechnologist</li> <li>• Radiologist</li> </ul> <p><b><u>Extensive Preparation</u></b></p> <ul style="list-style-type: none"> <li>• Speech-Language Pathologists*</li> <li>• Veterinarians*</li> <li>• Dentists, General*</li> <li>• Chiropractors*</li> <li>• Dietitians and Nutritionists</li> <li>• Optometrists*</li> <li>• Psychiatrists</li> <li>• Audiologists*</li> <li>• Podiatrists*</li> <li>• Orthotists and Prosthetists*</li> </ul>

\*Data acquired from [www.workforceexplorer.com](http://www.workforceexplorer.com), [www.sbctc.edu](http://www.sbctc.edu), [www.careerclusters.org](http://www.careerclusters.org), and [www.edf.org/cagreenjobs](http://www.edf.org/cagreenjobs),

Adapted from <http://www.nthurston.k12.wa.us/education/components/scrapbook/default.php?sectiondetailid=34988>