

<b>Pathways</b>	<b>Pathway Description and Career Options</b>	<b>Courses</b>	<b>Positions /Staffing</b>	<b>Space</b>	<b>Equipment /Materials</b>	<b>Partners</b>	<b>Early College and School –to-Career Experiences</b>
Freshmen Academy	All grade 9 students will have one period of <b>Pathways Exploration</b> besides the required core academics credits. Students will also take P.E. and Health	<p><b>Pathways Exploration</b>            A survey course reviewing career choices in each of the Pathways. Students will also work closely with school counseling staff to utilize <i>Family Connection</i> to examine career aptitude and interest in order to choose a pathway that best fits their profile            .5 One Semester</p> <p>AVID Study Skills and Skill Development  <i>(computer-based course)</i>            .5 One Semester</p>	<p>4 sections of Pathways Explorations per semester</p> <p>4 sections of AVID Course per Semester</p> <p><b>1 Additional Career Counselor - Teach Pathways Exploration and manage the Career Center and associated activities</b></p>	<p>Regular classroom space for 2 teachers</p> <p>Dedicated Career Center in the School Counseling area.</p>	<p>AVID Site License for 200 grade 9 students</p> <p>Student laptops/notebooks</p> <p>Access to Family Connection for all grade 9 students</p> <p>Career Pathways Materials</p>		<p>Guest Speakers from Various Pathway Careers</p> <p>Field Trips</p>
ECO (STEM)	The Early College Opportunity program or ECO is focused on preparing students for careers in Lean Manufacturing and Supply Chain Management. Students are dual-enrolled at QVCC and earn college credits while participating in the program. <b>Career Options</b> <b>2 Yr. Degree</b> Customer Service Inspection	See Appendixes B – G			Logistics Software	QVCC General Dynamics Electric Boat Eastern Advanced Manufacturing Alliance Eastern CT Workforce Development Board	QVCC Grade 10 Job Shadowing Grades 11 and 12 Internships

	<b>4 Yr. Degree</b> Quality Control Supplier Relations Mgmt. Procurement Mgmt. Materials Planning Inventory Mgmt. Logistics Mgmt. Demand Forecasting Export/Import Operation Distribution Mgmt.						
Pre-Engineering (STEM)	Focus on concepts of Engineering and Design and explore various fields of engineering  <b>Career Options</b> <b>2 Yr. Degree</b> Drafting <b>4 Yr. Degree</b> Engineering: Electrical Mechanical Civil Aeronautical	Pathway Courses: Grade 10 Intro to Engineering Design A & B Grade 11 Principles of Engineering A&B Grade 12 Civil Engineering & Architecture or Robotics or Construction Technology <b>Core Academics:</b> Math: Geo, Alg. II and Calc English: English II, Eng. III, and <i>Technical Writing</i> Science: Integrated II, Chemistry and Physics Social Studies: STEM Ethics (10) Capstone Project	1- 2 sections each Intro to Engineering and Principles of Engineering  1 section each of Civil Engineering and Architecture, Robotics and Construction Engineering	2 classrooms  1 Engineering Lab	<i>Site License for MasterCam</i>  <i>2- 3D Printers</i>	UConn Regional Manufacturers Regional Engineering firms	ECE Math and Science Courses  Grade 10 Job Shadowing  Grades 11 and 12 Internships
Health Occupations (STEM)	An introduction to careers in the health field reviewing areas such as therapeutic and diagnostic services, health information, support services and research and development. Medical ethics will also be covered	Grade 10 Introduction to Health Services and Careers Grade 11 Medical Terminology and Patient Care or CNA Certification Grade 12 Medical Research and Ethics or CNA Certification	2 sections each of Intro to Health Careers , Medical Terminology, And Medical Research and Ethics  <i>1 – 2 Health Tech Instructors – (New Positions )</i>	1 classroom  1 Computer Lab	Laptops  Interactive Patient Manikins  CPR Manikins  Multi-facet Patient monitors  Medical equipment;	Windham Hospital ECSU QVCC TVCC	ECE Math and Science Courses  Grade 10 Job Shadowing  Grades 11 and 12 Internships

	<p><b>Career Options</b>  <b>HS Diploma</b>  Certified Nurses Aide  Hospital Orderly  <b>2 Yr Degree</b>  Licensed Practical Nurse  Radiology Technician  Dental Hygienist  Diagnostic Sonographer  Occupational Therapy Asst.  Physical Therapy Asst.  Surgical Technician  Medical Records  <b>4 Yr. Degree</b>  Registered Nurse  Medical Perfusionist  Clinical Trial Manager  Product Manager  Pharmaceutical Sales  Hand Therapist  Pre-Medical</p>	<p>Core:  Math: Bioformatics  Science: Integrated Sci  A&amp;B, Biology A&amp;B,  BioTechnology</p> <p>Capstone Project</p>			<p>stethoscopes, blood pressure sleeves, thermometers, etc.</p>		
<p>Education and Teaching ( Humanities)</p>	<p>Students will be introduced to further studies and careers in education and teaching. Students will primarily concentrate on early childhood education with a focus on learning environments, child growth and development and theories of learning.</p> <p><b>Career Options</b>  <b>HS Diploma</b>  Daycare Aide  Paraprofessional  <b>2 Yr Degree</b>  Pre-school Teacher  Child-care Worker</p>	<p>Grade 10 Learning Environments  Grade 11 Child Growth and Development  Grade 12 Learning Theory</p> <p><b>Core Academics:</b>  English: Writing &amp; Research, Public Speaking  Math: Bioformatics and Probability and Statistics  Social Studies: Psychology</p> <p>Capstone Project</p>	<p>2-3 sections each of Learning Environments, Child Growth and Development, and Learning Theory</p>	<p>1-2 classrooms  1 computer Lab  SmartBoards</p>		<p>Field Experience with WECC  ECSU  UConn</p>	<p>ECE Courses  Grade 10 Job Shadowing  Grades 11 and 12 Internships</p>

	<b>4 Yr. Degree</b> Content and K-5 Teacher Library Media Specialist Writer/Editor Instructional Materials Development and Sales School Counselor						
Visual Arts and Music (Humanities )	Students will be introduced to further study and careers in the visual arts and music. Students will create a pathway utilizing the existing course of studies <b>Career Options</b> <b>HS Diploma</b> Visual Artist Musician Art Entrepreneur <b>2 Yr Degree</b> Visual Artist Musician Art Entrepreneur Production Asst. <b>4 Yr. Degree</b> Teacher Writer Artist Art Director Curator Musician Audio Engineer Director Composer Therapist	Existing Fine Arts curriculum, Engineering and Technology and Core choices Review Visual Arts curriculum and explore the inclusion of digital photography.  Capstone Project	2 sections of digital photography	Digital Photography Lab ProTools Lab	Adobe Illustrator ProTools  20 MAC workstations with ProTools software  20 piano keyboards with MIDI stations	ECSU UConn	ECE Courses  Grade 10 Job Shadowing  Grades 11 and 12 Internships