



# Northeast Regional Career & Technical Education Pathway Plan

**Cluster: STEM**

**Pathways: Engineering and Technology**

This Career Pathway can serve as a guide, along with other career planning materials, as students continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. 28 credits needed for graduation.

Student Name: \_\_\_\_\_

Grade: \_\_\_\_\_

School Name: \_\_\_\_\_

		Gr.8	Gr.9	Gr.10	Gr.11	Gr.12	Workbased Learning Experiences
<b>Academic</b>	<b>Language Arts</b>		English I	English II	English III	English IV	Skills USA
	<b>Math</b>		Math	Math II	Math III	Math IV	CTE Internships
	<b>Science</b>		an Earth Science	Biology	a Physical Science		Job Shadowing
	<b>Social Studies</b>		World History	Amer. Hist. I/II	Civics/Economics		Field Trips
	<b>Other</b>		Health/PE				Classroom Speakers
		Students planning to attend a 4 year university should take two levels of the same foreign language.					
		Electives--Students choose from CTE Foundation & Enhancement options below.					
<b>CTE Preparation</b>	<b>Foundation</b>	<b>Complete minimum of 4 courses to earn CTE Concentrator Status--one must be starred * course</b>					
		<b>Foundational Options (or their CCP Equivalents)</b>					
		Technology Engineering & Design	Intro to Trades and Industry				<b>Optional Articulated College Credits</b>
	Engineering Design*	Advanced Manufacturing I, II*					
	Metals Manufacturing I, II*	See Essential Standards for PLTW courses and other Foundational Course options.		Metals Manufacturing I & II	BPR 111, MAC111,MAC151		
	Drafting I, II*, III (Engineering)			Drafting I & II (Engineering)	DFT 151 CAD I		
	<b>Enhancement</b>	<b>Students Can Opt to Replace One Foundation Course Above with Enhancement Course</b>					
		Ag Mechanics I	Microsoft Word & Powerpoint				
		Microsoft Excel & Access	Personal Finance				
	<b>Credentials</b>	CTE Internship and/or Apprenticeship	See state cluster doc for other options.				
CRC (WorkKeys)		See state credentials by course document for credentials related to Metals Manufacturing I, II.					
Autodesk Certified Inventor or Certified SolidWorks Associate-Drafting I, II							
<b>Career Counseling</b>	<b>8th Grade</b>	<b>9-12th Grade</b>					<b>Career Diploma Endorsement Requirements</b>
	Exploring Career Decisions ACT Explore Career counseling plans grades 8 - 14+	ACT PLAN--10th grade ACT College Readiness Assessment 					