

2 + 2 + 2 PROGRAM OF STUDY FOR Assabet Valley Regional Technical High School and Quinsigamond Community College

Metal Fabrication (Associate of Science in Manufacturing Technology)

	9	10	11	12	Semester 1	Semester 2	Semester 3	Semester 4
English	College Prep English 9	College Prep English 10	College Prep English 11	College Prep English 12	English Composition and Literature I	English Composition & Literature II		
History & Social Studies	U.S. History I	U.S. History II	Modern World Geopolitics	Government and Society				
Science	Biology A Lab	Biology B Lab	Chemistry Lab	Physics Lab			Physics I	Physics II
Math	Algebra I	Geometry	Algebra II	Intro to Calculus	College Mathematics I: Precalculus	Statistics or College Mathematics II: Trigonometry		
Foreign Lang Humanities/ Fine Arts Social Science	Spanish I	Spanish II	Elective Elective	Elective Elective	Liberal Arts Elective		Program Electives	Program Elective
Career Pathway	Metal Fab,	Metal Fab	Metal Fab	Metal Fab	Manufacturing Technology	Instrumentation in Manufacturing	Mechanical CAD II or Solid Modeling	Fundamentals of Computer-Aided Manufacturing
Career Pathway					Introduction to Computer Applications	Mechanical CAD I	Computer Numerical Control	Processes II
Career Pathway					Manufacturing Processes I	Geometric Tolerancing and Blueprint Reading		
Tech Prep Student Services			College Day visit Accuplacer Student leadership					
Work Based Learning				Co-Op	Manufacturing Cooperative Work Experience and Seminar			

2+2+2 NOTE: Students who graduate from Quinsigamond Community College with a 3.0 or higher also qualify to receive a 33% reduction on the in-state tuition rate at the UMASS University/college they attend if part of JA. Talk to the college Transfer Counselor for details prior to completing 30 credits. Academic requirements vary for different programs, so always check with Program Coordinator/Advising Center for complete listing of degree requirements for the major you are seeking. **This grid follows the pathway for the Associate in Manufacturing Technology.** It prepares students for career opportunities in the area of Manufacturing or to transfer to a four year program.