

# North Carolina Career Pathway

(for academic years prior to 2009-2010)

## Industrial Technologies

**Workers in this pathway install, maintain, and/or service electrical, mechanical, hydraulic, and plumbing systems; design, manufacture, and market fabrics; and fabricate and repair metal products using metal working and welding processes. High School Focus- Technology Education and Trade and Industrial Education.**

Select from the Industrial Technologies classes listed below. A student must pass four related vocational classes in a pathway. One of these four courses must be an upper level starred course\*.

9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
English I	English II	English III	English IV
Math*	Math*	Math*	Math*
Science	Science	Science	Elective
Social Studies	Social Studies	Social Studies	Elective
Health and PE	Elective	Elective	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective

**\*Math Suggestions for the three Courses of Study listed below**

Career Prep	College Tech Prep	College/University Prep
<b>3 credits</b> Including Algebra I (This requirement can be met with Integrated Math I and II when accompanied with the Algebra I EOC)	<b>3 credits</b> Algebra I, Geometry, Algebra II, OR Algebra I, Technical Math I and II, OR Integrated Math I, II, III	<b>4 credits</b> Algebra I, Geometry, Algebra II, AND higher level math course with Algebra II as prerequisite OR Integrated Math I, II, III and a credit above Integrated Math III

## Community College Majors

Biomedical Equipment Technology, Electronic Servicing Technology, Electronics Technology, Environmental, Health, and Safety Technology, Furniture Production Technology, Design and Production Development Concentration, Furniture Production Worker, Furniture Upholstery (Certificate), Industrial Management Technology, Industrial Specialty Technology, Industrial Maintenance Technology, Packaging Machinery Servicing, Machining Technology, Tool, Die, and Mold Making Concentration, Manufacturing Technology, Plastics Concentration Quality Assurance Concentration, Mechanical Drafting Technology CAD Systems Management Concentration, Telephony (Certificate) Upholstery Production Worker (Certificate), Textile Technology, Welding Technology, Underwater Concentration

## College/University Majors

Applied Science Technologies, Engineering Physics, Engineering Technologies, General Engineering, Industrial/Manufacturing Engineering, Mechanical Engineering, Technology Education and Industrial Technology, Applied Science Technologies, Civil Engineering, Engineering Physics, Industrial/Manufacturing Engineering, Mechanical Engineering, Engineering Technologies, and Technology Education, Applied Science Technologies, Engineering Technologies, Industrial/Manufacturing Engineering, Technology Education, Textile Engineering, and Textile Technologies, Applied Science Technologies, Engineering Technologies, Civil Engineering, Engineering Physics, Industrial/Manufacturing Engineering, Mechanical Engineering, General Engineering, Engineering Technologies, and Technology Education, Industrial Technology

## Electives

*Not all classes listed here will be available at each high school.*

6411 Computer Applicats I	7661 Welding Tech I
6512 Keyboarding (H.S.)	7662 Welding Tech II*
7400 Intro T & I Education	7663 Welding Tech III
7611 Textile Tech I	7821 T & I Work Develop I
7612 Textile Tech II*	7822 T & I Work Develop II*
7613 Textile Tech III	7921 Drafting I
7641 Metals Manuf Tech I	7996 T & I Apprentshp Meth*
7642 Metals Manuf Tech II*	7997 T & I Co-Op Method
7643 Metals Manuf Tech III	7999 T & I Adv Studs*
7651 Electro-Mech Tech I	8011 Principles of Tech I
7652 Electro-Mech Tech II*	8012 Principles of Tech II*
7653 Electro-Mech Tech III	8110 Fundamentals of Tech
	8115 Manufacturing System I