

North Carolina Career Pathway

(for academic years prior to 2009-2010)

Engineering Technologies

This pathway involves careers, which use CADD and other complex tools and software to design, draw, and produce computer-generated drawings of environmental and structural models and to control machines used in design and manufacturing. They also design, build, install, and repair developmental and production electronic systems and equipment; produce, process, and market plants, trees, and shrubs for home and commercial use; manage and maintain horticultural businesses and use computers to generate charts, 3-D graphics, and animations used in engineering, architecture, and science.

Select from the Engineering 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 th Grade	10 th Grade	11 th Grade	12 th 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
<p>3 credits Including Algebra I (This requirement can be met with Integrated Math I and II when accompanied with the Algebra I EOC)</p>	<p>3 credits Algebra I, Geometry, Algebra II, OR Algebra I, Technical Math I and II, OR Integrated Math I, II, III</p>	<p>4 credits 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</p>

Community College Majors

Architectural Technology, Automation/Robotics Technology, Civil Engineering Technology, Computer Engineering Technology, Electrical Engineering Technology, Landscape Architecture Technology, Mechanical Engineering Tech./Mechanical Drafting Tech. (CAD Concentration), Scientific Visualization Computer Graphics Technology

College/University Majors

Architecture, Engineering, Computer and Information Science, Physical Sciences, Fine and Applied Arts, Industrial Technology, Applied Science Technologies, Electrical/Electronic/Communications Engineering, Engineering Physics, Engineering Technologies, General Engineering, Technology Education, and Industrial Technology, Horticulture Science, Agricultural and Extension Education, Engineering, Industrial Technology, Technology Education, Communications, Engineering, Computer and Information Science, Physical Sciences, Fine and Applied Arts

Electives

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

6411 Computer Applicats I	7980 Network Engrng Tech I
6512 Keyboarding	7981 Network Engrng Tech II*
6831 Agr Engrng Tech I	7991 Computer Engr Tech I
6832 Agr Engrng Tech II*	7992 Computer Engr Tech II*
6896 Agr Apprentshp Method	7996 T & I Apprentshp Meth*
6897 Agr Co-Op Method	7997 T & I Co-Op Method
6899 Agr Advanced Studies*	7999 T & I Adv Studs
7400 Intro T & I Education	8005 Technology Studies*
7631 Electronics I	8011 Principles of Tech I
7632 Electronics II*	8012 Principles of Tech II*
7633 Electronics III	8110 Fundamentals of Tech
7901 Sci & Tech Visual I	8115 Manufacturing System*
7902 Sci & Tech Visual II*	8125 Communications Systems*
7921 Drafting I	8126 Transportation Systems*
7972 Drafting - Engrng II*	8141 Structural Systems*
7973 Drafting - Engrng III	8196 Tech Apprentshp*