



ENGINEERING, MANUFACTURING, AND INDUSTRIAL TECHNOLOGY

Careers in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service and related technologies.

SAMPLE CAREERS

HIGH SCHOOL DIPLOMA	SPECIALIZED CERTIFICATE OR ASSOCIATE DEGREE	BACHELOR'S DEGREE OR ABOVE
<ul style="list-style-type: none"> ◆ Auto Body Technician ◆ Carpenter ◆ Climate Control Mechanic ◆ Custodian ◆ Machine Tool Setter ◆ Roofer ◆ Security System Installer ◆ Welder 	<ul style="list-style-type: none"> ◆ Auto Repair Technician ◆ Construction Technician ◆ Computer Aided Designer ◆ Heating & Cooling Systems Technician ◆ Industrial Electronics Tech. ◆ Pipe Fitter ◆ Surveyor Technician ◆ Air Traffic Controller 	<ul style="list-style-type: none"> ◆ Architect ◆ Automotive Engineer ◆ Chemical Engineer ◆ Computer Analyst ◆ Computer Programmer ◆ Construction Management ◆ Mechanical Engineer ◆ Geographer

MODEL FOUR YEAR PLAN

Each student must take six credits per year

9th Grade:

Required:
 English 9
 Algebra I
 Biology
 Social Studies 9

10th Grade:

Required:
 English 10
 Geometry
 Science
 Social Studies 10

11th Grade:

Required:
 American History
 Algebra II
 English II
 Chemistry or
 Physics

12th Grade:

Required:
 English
 Math Elective

ADDITIONAL REQUIRED CLASSES

Fine Arts – 1/2 credit Health – 1/2 credit Physical Education - 1 credit

RECOMMENDED / RELATED ELECTIVES		
Computer Education Know Your Auto Auto Service Tech. 1,2 Small Engine Services Drafting 1,2,3 Architectural Drafting Computer Aided Drafting Physical Technology Earth Science	Information Technology Bio-related Technology Basic Electronics Graphics Communications 1,2,VOC Metal Technology 1,2 Homebuilding Machine Tool Technology Production Arts and Design	Foreign Language Computer Science 1,2 Computer Programming Calculus Math Analysis 1,2 Chemistry (Regular, AP) Physics (Regular, AP) Sculpture/ Art and Design Statistics

ENGINEERING, MANUFACTURING, AND INDUSTRIAL TECHNOLOGY