

INDUSTRIAL TECHNOLOGY

710 WOODS 1

Level 2

Grades 9-12

1 credit

This is an introductory course in manufacturing technology, using wood as a media, where students will learn to convert a designer's ideas into a product that has value. Proper and safe use of hand and power tools, planning and design, material selection, procedures, assembly, finishes and hardware will be covered. Application of learning through assigned and approved student projects. Enrollment limited to 16.

Student Learning Expectations
1 Develop skills in literacy across content areas.
2 Develop critical thinking skills across the content areas.
3 Develop problem-solving skills across content areas.
4 Develop communication skills across content areas.
5 Develop skills for productive use of technology and information resources.
6 Develop career, educational, and life planning skills.
7 Understand the role of arts in society.

711 ADVANCED WOODS

Level 2

Grades 10-12

1 credit

Prerequisite: Minimum grade of C Woods 1 or recommendation from instructor. This course is designed to provide the student with a more in depth study of woodworking. Skills and processes taught should be practical and salable to an employer and/or valuable to the student's interests and needs in private life. Units include production projects, operation and machine set-ups, safety, advanced planning and design, materials, practical carpentry, plastics, laminating, cabinetry, hardware and fasteners, and finishing. Application of learning through assigned and instructor approved project work. Quality will be stressed. Enrollment limited to 16.

Student Learning Expectations
1 Develop skills in literacy across content areas.
2 Develop critical thinking skills across the content areas.
3 Develop problem-solving skills across content areas.
4 Develop communication skills across content areas.
5 Develop skills for productive use of technology and information resources.
6 Develop career, educational, and life planning skills.
7 Understand the role of arts in society.

712 ELECTRICITY

Level 2

Grades 10-12

1 credit

This course will include sources of electricity, components, controls, integrated circuits and solid state devices. An interest in math and good reading comprehension is recommended to successfully complete problem-solving and team assignments. Enrollment limited to 16.

Student Learning Expectations
1 Develop skills in literacy across content areas.
2 Develop critical thinking skills across the content areas.
3 Develop problem-solving skills across content areas.
4 Develop communication skills across content areas.
5 Develop skills for productive use of technology and information resources.
6 Develop career, educational, and life planning skills.

715 GENERAL METALS

Level 2

Grades 10-12

1 credit

This course will introduce students to many current and basic industrial technologies and concepts, including: print reading and job evaluation, measurement, application, safe operation and maintenance of tools and machinery, welding techniques and material processing. Safety and application of contemporary industrial methods will be stressed. Enrollment limited to 16.

Student Learning Expectations
1 Develop skills in literacy across content areas.
2 Develop critical thinking skills across the content areas.
3 Develop problem-solving skills across content areas.
4 Develop communication skills across content areas.
5 Develop skills for productive use of technology and information resources.
6 Develop career, educational, and life planning skills.
7 Demonstrate civic responsibility and environmental stewardship.
8 Demonstrate knowledge and behaviors that will foster the adoption of healthy lifestyles.

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AUTO-CAD DRAFTING

Levels 1 & 2

Grades 9-12

1 credit

Students will be introduced to traditional pencil and paper drafting. AutoCAD shifts to developing skills to produce two-dimensional drawings using the computer and the AutoCAD LT Computer Program. Emphasis will be placed on problem-solving, using math skills, and accepted drawing practices. **This course may be counted as either (not both) a fine arts or math credit after two credits have been earned (one being Algebra) within the math department.** Enrollment limited to 12.

Student Learning Expectations
1 Develop skills in literacy across content areas.
2 Develop critical thinking skills across the content areas.
3 Develop problem-solving skills across content areas.
4 Develop communication skills across content areas.
5 Develop skills for productive use of technology and information resources.
6 Develop career, educational, and life planning skills.