

# TRADE AND INDUSTRY

## **PHIT211 Drafting**

**(must also be enrolled in Intro to Industrial Technology)**

**Level: 9-12**

**Credit: ½ unit**

This class is an introduction to basic drafting skills and the Computer Aided Drafting (CAD) program. Students will learn basic drafting skills and how to draw multi-view drawings. This class will also go through the basic AutoCAD skills and students will be expected to use their drafting skills in the CAD program. It is recommended that students have a good understanding of mathematical concepts. We also will go through some blueprint reading and students will also construct a project on the computer that should be able to run on the CNC Router.

## **PHIT212 Intro to Industrial Technology**

**(must also be enrolled in Drafting)**

**Level: 9-12**

**Credit: ½ unit**

This class is an introduction to Industrial Woodworking including: design, planning, cost estimation, construction, and finishing of products. Students learn the safe use of hand and power tools. Machine safety tests must be passed with 90% proficiency before students are allowed to work in the shop. Students will be assigned 3 projects to construct and will be required to produce plans and bill of materials for subsequent projects of their choosing. A shop fee is required.

## **PHIT311 Cabinet Making and Furniture Design 1**

**Prerequisite: Drafting and Intro to Industrial Technology**

**Level: 10-12**

**Credit: 1 unit**

This class builds on the skills acquired in Introduction to Industrial Technology. Students are introduced to basic cabinet design and construction. Course content includes: estimation, design, construction and installation of basic kitchen, bath and special cabinets. Students will also be introduced to basic CNC machining. There will be several assigned projects as well as student initiated projects. Class size is limited. A shop fee is required.

## **PHIT412 Cabinet Making and Furniture Design 2**

**Prerequisite: Cabinet Making and Furniture Design 1**

**Level: 11-12**

**Credit: 1 Unit**

Students will gain experience operating a CNC Router. They will become familiar with programming, setup and operating the machine. This class is for the serious student with advanced woodworking skills. The class will design and manufacture custom cabinets for outside clients. Class size is limited. A shop fee is required.