

Industrial Technology

Course Title	Required	Credit	College Credit
College Now: Architectural Drafting	No	.5	2
College Now: Architectural Drafting II / CAD	No	.5	4
Drafting Projects	No	.5	
Woods 1	No	.5	
College Now: Woods 2	No	.5	4
Woods 3	No	.5	
Construction	No	.5	
Welding	No	.5	3
Shop Assistant	No	.5	

NOTE: There are lab fees for Woods courses. While these fees do not fully cover the expense of these courses they do help offset some of the cost necessary to offer these courses. Please inquire with the main office on the amount of the fee and making payments.

21103 – College Now: Architectural Drafting

Grade Levels: 9-12

1 Semester

This is an introductory course, studying home design and plan drafting. The course will cover the organizing principles which govern house design through a series of projects. Students will learn the basics of “board drafting”. This is a must have for any student who wants to pursue architecture or interior design as a career. There is no fee for this course, however students are issued a kit of supplies for the duration of the class and are financially responsible for them if they are lost or damaged.

Students who demonstrate an advanced understanding of the principles studied and receive an A or B in the course are eligible for college credit. Please speak with your instructor about this option. These credits are free, so please take advantage of this option.

21107 – College Now: Architectural Drafting II: CAD

Prerequisite: Architectural Drafting

Grade Levels: 9-12

1 Semester

This is an intermediate course in drafting with an emphasis on architecture and the use of Computer Aided Drafting (CAD). Students will continue to study the organizing principles which govern home and building design through a series of projects done both on paper and on a computer. Students will learn how to use an industry standard CAD program with 3D modeling capabilities. They will demonstrate these techniques through printed plans, virtual tours and presentations. Students are required to provide their own USB drive. **Students who demonstrate an advanced understanding of the principles studied and receive an A or B in the course are eligible for college credit.** Please speak with your instructor about this option. These credits are free, so please take advantage of this option.

21147- Drafting Projects - Independent Study

Prerequisites: Drafting I and Drafting II

Instructor Approval Required

Grade Levels: 10-12

1 Semester

This is an advanced course in drafting. Students will work independently on a variety of projects that will expand on the principles of residential and commercial buildings studied in the prerequisite courses. Students will utilize more of the features of the CAD software. With instructor permission students may have an opportunity to work with 3D modeling software and possibly 3D printing.

17006 -Woods 1

Grade Levels: 9-12

1 Semester

This is a beginning course in woodworking. Students will spend time in both the shop and classroom learning design applications, plan drafting, equipment safety, construction skills, simple joints, wood finishes, and other wood related topics. In this class each student will be given instruction on the safe use of each woodworking machine and tool in the shop. Students will be expected to work on four or more projects, which require the use of these tools and machines. There is a fee for the course. Please check with the main office.

17007 –College Now: Woods 2

Prerequisite: Woods I

Grade Levels: 9-120

1 Semester

This is an intermediate course in woodworking. Students will spend time in both the shop and classroom learning design applications, plan drafting, equipment safety, construction skills, mass production, wood finishes, and other topics related to **cabinet making**. In this class each student will be given instruction on the safe use of each woodworking machine and tool in the shop. Students will be expected to work on two or more required projects with the remaining time devoted to projects of their choosing. All of these projects will require the use of these tools and machines. There is a fee for this course. Please check with the main office. **Students who demonstrate an advanced understanding of the principles studied and receive an A or B in the course are eligible for college credit.** Please speak with your instructor about this option. These credits are free, so please take advantage of this option.

17008- Woods 3

Prerequisite: Woods 1 and Woods II or Construction

Grade Levels: 10-12

1 Semester

Independent/directed carpentry project based course. Students will build personal, school related, or community needed projects for this course. Prerequisites are Woods I & Woods II. Students will always have one personal project and one school project assigned of their choosing so as always to have assignments to do. All of these projects will require the use of tools and machines. Students are required to present shop drawings for instructor approval before beginning. Instructor will evaluate student knowledge of hand and power tool safety at first class meeting to determine whether skill level is appropriate for independent work. There is a fee for this course. Please check with the main office.

17002- Construction

Prerequisite: Woods I

Grade Levels: 9-12

1 Semester

This course is an introduction to the basic building materials, components and methods in residential construction. It is designed to give students basic, entry level skills in construction and related trades along with an overview of career opportunities available. Emphasis is placed on safety and the proper use of both hand and power tools. Students will be responsible for several assigned projects throughout the semester. There is a fee for this course. Please check with the main office.

13207 Shielded Metal Arc Welding

Grade Levels: 9-12

1 Semester

This course is an introduction to arc welding, also known as stick welding. Students will learn the basic skills and safety requirements around arc welding. They will learn to weld in all positions (flat, horizontal, overhead, and vertical). Students in the class will also learn basic practices around oxyacetylene cutting and welding. There will be basic instruction around safety practices and skills for operating metalworking equipment. Students in this class may receive "College Now" credit through Lane Community College by completing this course.

13995 – Shop Assistant

Prerequisite: Woods I and Woods II –

Teacher Approval Grade Levels: 10-12

1 Semester

This is not a TA. Students will assist in the daily operation of the wood shop. They will assist other students, help to service equipment, clean, work on school and community based projects, and by doing so expand their knowledge of the inner workings of a wood shop. If time permits students may work on individual projects. There is no fee for this class. Any projects the students build will be priced according to size and be paid for before starting the project.