

Architectural Drafting 1

Little Chute
Technology and Engineering
Grades 11 - 12, .5 Credits

Course Overview

Architectural Drafting 1 is an in-depth study of Floor Plans, Electrical Plans, Roofing Plans, Exterior Elevations, Traffic Patterns, and Design.

Scope and Sequence

Timeframe	Unit	Instructional Topics
Ongoing	Unit 1- Presentation Floor Plans	1.1: Design 1.2: Kitchens 1.3: Living Area 1.3: Sleeping Area
2 Week(s)	Unit 2- Elevations	2.1: Stick Welding
Ongoing	Unit 3- Roofs	3.1: Hip and Gable Roofs
2 Week(s)	Unit 4- Electrical Plans	4.1: Electrical Symbols and Layout

Materials and Resources

- Pencil
- Folder

Course Details

UNIT: Presentation Floor Plans -- Ongoing

Description

The student will create required floorplans that include furniture and fixtures.

Academic Vocabulary

Scale, Template, Symbols, Factors, Building Code, Fire escape, Working Triangle, Presentation, Floorplan

Materials and Resources

Pencil and paper.

TOPIC: Design -- 3 Day(s)

Learning Targets

Discuss and design bathrooms

This lecture focuses on full, 3/4, and 1/2 bathrooms. Students will gather information on layout, design, and symbols.

TOPIC: Kitchens -- 1 Day(s)

Learning Targets

Discuss, design and layout a kitchen/eating area

This lecture covers some of the important aspects of kitchen design, formal and informal dining, safety, symbols, and the traditional working triangle.

TOPIC: Living Area -- 1 Day(s)

Learning Targets

Discuss, design and incorporate the layout of kitchen, living room, and dining area.

In this lecture the students will be exposed to information that they already know yet never paid attention to. A look at how the components of the traditional living area and the affects of todays lifestyle interact.

TOPIC: Electrical symbols and layout. -- 1 Day(s)

Learning Targets

Discuss, noise control and sleep needs

In this lecture the student will gather a better understanding as to the layout of the sleeping area of the house.

UNIT: Elevations -- 2 Week(s)

Description

The student will create all four exterior elevation drawings of their house based upon information gathered from their floorplans.

Academic Vocabulary

Pitch, Roof Line, Hip, Gable, Heights

Materials and Resources

Pencil and paper
Instructor guidance

TOPIC: Setting up elevation drawings. -- 1 Day(s)**Learning Targets**

Create 4 elevations

With the completion of this lecture / demonstration the student will be able to create exterior elevations (front, back, left, right)

UNIT: Roofs -- Ongoing**Description**

Students will create a roofing plan and then place that roof onto each exterior elevation drawing.

Academic Vocabulary

Hip, Gable, Pitch,

Materials and Resources

Paper and pencil
instructor guidance

TOPIC: Hip and Gable roofs -- 1 Day(s)**Learning Targets**

Produce examples of roof styles

The students will be exposed to Hip and Gable roofs. After this lecture / demonstration the student will be able to create a roofing plan using one or both styles of roofs mentioned.

UNIT: Electrical plans -- 2 Week(s)**Description**

Students will trace floor plans in order to place electrical symbols onto the drawing.

Academic Vocabulary

Templates, symbols,

Materials and Resources

paper and pencil

instructor lecture notes

TOPIC: Electrical symbols and layout. -- 1 Day(s)

Learning Targets

Apply symbols to a drawing

After this lecture / demonstration the student will be familiar with electrical symbols and components. The student will be able to create an electrical plan using these symbols.