

## Basic Construction I Course Number 96212

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Term: 1 Semester

Credits: .5

Grades:9-12

Prerequisite: None

### **INSTRUCTOR INFORMATION**

Catherine Ludowese

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Rm 171

### **DESCRIPTION**

**This course will introduce, and build basic skills in the areas of carpentry, electricity and others as time permits. Students will be able to identify and demonstrate safe usage of hand and power tools pertinent to each of the trades introduced. Measurement, and workplace math calculations will be incorporated. An overview of the construction trades, work expectations and career opportunities will be incorporated.**

### **EXPECTATIONS**

Roosevelt High School policies will be implemented into our classroom at all times. Safety rules will also be followed. If these rules cannot be followed the student will be removed from class until they are able to follow the rules. Attendance is important. Students are expected to be in the classroom 95% of class time, or better. The high school policies for attendance and tardies will be followed. Hats, outerwear , electronics , food and beverages etc. will not be permitted in the lab and classroom for safety reasons. The school policies governing these situations will be followed. Students will be expected to sign a safe conduct agreement, and pass safety tests before being permitted to work in the shop/lab.

### **COURSE TEXT BOOK**

*Multi-Craft Core Curriculum* by the Building Construction Trades Department of the AFL-CIO

*Career Connections Project Book 1* by the Carpenter's International Training Fund

### **COURSE OUTLINE**

UNITS:

General Safety and Shop Protocol

Working In The Industry

- Employability skills
- Organization of the construction industry and introduction to Unions and building trades

Introduction to Working With Wood

- Hand tool identification selection, care and safety
- Power tool selection, care, usage and safety
- Linear measurement, decimal and fraction math
- Calculating Cut Lists and Bill of Materials
- Project work

Introduction to Concrete

- Hand tool identification selection, care and safety
- Chemical components of concrete
- Concrete calculations
- Mixing and pouring concrete

### Introduction to Working with Electricity

- Voltage, amperage, wattage, series and parallel circuitry
- Tool identification, usage and safety
- Wiring materials, electrical equipment and switches, including 3-way
- Wiring techniques
- Project work

### **EVALUATION / GRADING CRITERIA:**

Students will be evaluated using a variety of authentic and traditional tools.

Course Grading Components Include: (all grading systems are that of the Roosevelt 8 point system)

Quizzes and Tests

Daily Assignments, Mid-term and Final exams

Shop work / Lab projects

Participation / Work Ethic/Shop safety/Employability skills

Students are expected to perform tasks at the minimal level expected of employees in the construction trades.

### **RESOURCES:**

Guest speakers, industry field trips, informational handouts, books, tools, training and safety videos, project sheets, construction and safety materials, and when necessary, computers.