

Course Syllabus (Template)

Woodworking 2016-2017

Instructor: Mr. Robert Ashler

This course introduces students to the following elements of woodworking; shop safety, project design, materials, processing materials and construction, fasteners, finishing, and job opportunities in this area. Students will complete a skills project and other projects (group/individual) during the semester.

Students will be graded by written assessments and each day a student has the potential to gain 100 points, based on attendance, participation, safety and project progress. Total accumulated points divided by the possible accumulated points determine the grade. When students are not in class they receive 0 points, but there are opportunities to make this time up. Basic materials to complete the class will be provided and other materials may have to be purchased by students. Suitable clothing and safety items (eye protection) are required in this class.

1. Shop Safety
 - a. Hand Tools
 - b. Power Tools and Equipment
 - c. Individual Safety

2. Introduction to Materials (Structure, Manufacturing, etc.)
 - a. Wood Based Materials (natural and composition)
 - b. Non-Wood Materials

3. Process for Designing Projects
 - a. Elements of Design
 - b. Elements of Project Planning
 - c. Measurements

4. Processes for Preparing Materials for Project Construction
 - a. Preparing materials for processing (truing and squaring)
 - b. Use of Equipment in preparing materials (safety)

5. Fasteners
 - a. Mechanical
 - b. Adhesives and Chemicals
 - c. Hardware and Clamping Equipment

6. Elements of Joinery-Construction Techniques
 - a. Identification and Application of Joinery
 - b. Processes for construction of Wood Joints

7. Finishing Processes
 - a. Adhesives-Identification and Application
 - b. Stains, Sealants, etc.-Identification and Application

8. Opportunities in the Area of Wood Production and Manufacturing

Activities

Students will be exposed to the above areas in the woodworking course. Students will start out the course with instruction in shop, equipment, tool, and personal safety practices. As the year progresses students will be introduced to other areas which include skills based projects and culminates with a final student or group selected project.

Materials

Students must bring to class and wear the following clothing when working in the shop. Suitable work pants, shirt, and closed toe footwear. Students are also required to have instructor approved eyewear protection. A sharp pencil is also required in this class.

Students will be provided basic materials (wood, adhesives, finishes, etc.) to complete projects for the class. Any materials beyond this scope must be provided or paid by the student.

Assessments

Students will be assessed in Woodworking based on a proficiency basis referenced to a rubric. A rubric is a chart identifying expected performance outcomes based on specific activities. For example, a project rubric may include elements of safety, design, processing and finishing or materials and quality of craftsmanship. Other assessment tools may include:

a. Multiple choice quizzes	20%
b. Constructive responses (Why, how an activity is performed and application of knowledge)	20%
c. Assessment of skills based activity (This activity will demonstrate the student's understanding of shop safety, use of tools and equipment, and basic joinery techniques).	20%
d. Daily assessment.	20%
e. Assessment of final project.	<u>20%</u>
	100%

Assessment Grading

Highly Proficient...90-100%	Proficient...75-89%
Developing...65-74%	Not-Proficient...less than 64%

Instructional Materials

The majority of the instruction in Woodworking is provided by individual teacher instruction. Periodically, the teacher may assign reading from selected texts and/or readings or assignments via other resources.

Forms/Syllabus

Course Syllabus (Template)

This Old House- 2016-2017

Instructor: Mr. Robert Ashler

The first component of this course is to go through the steps of actual construction of a stick built building. We will start with planning, go to foundation construction, framing, roofing, wiring, plumbing, insulation, sheet rocking & mudding, painting and finish trimming. We will try to construct a mini-building using all of the above steps. The second component will be the exploration of the math used in the construction process. This will include how to figure how much of any of the materials we will need without coming up short or wasting material. How to figure angles of construction for corners, roof line and plumbing drainage. We will also need to be able to figure cost, volume, area, and the cost of shipping and getting building permits. All of the things involved in this course are designed to have an applicable function and give students a very hands-on building experience. This course introduces students to the following elements of woodworking; shop safety, project design, materials, processing materials and construction, fasteners, finishing, and job opportunities in this area. Students will complete a skills project and other projects (group/individual) during the semester.

Students will be graded by written assessments and each day a student has the potential to gain 100 points, based on attendance, participation, safety and project progress. Total accumulated points divided by the possible accumulated points determine the grade. When students are not in class they receive 0 points, but there are opportunities to make this time up. Basic materials to complete the class will be provided and other materials may have to be purchased by students. Suitable clothing and safety items (eye protection) are required in this class.

1. Shop Safety
 - a. Hand Tools
 - b. Power Tools and Equipment
 - c. Individual Safety
 - d. Measuring Tools

2. Introduction to Materials (Structure, Manufacturing, etc.)
 - a. Wood Based Materials (natural and composition)
 - b. Non-Wood Materials

3. Process for Construction
 - a. Foundation construction,
 - b. Framing,
 - c. Wiring,
 - d. Plumbing
 - e. Insulation
 - f. Sheet rocking & mudding
 - g. Painting
 - h. Roofing
 - i. Finish trimming.

- 4. CTE Mathematics
 - a. Material and Project Estimation
- 5. Opportunities in the Area of Wood Construction and Manufacturing

Activities

During the course students will perform competency based activities in the above aspect of construction. Our class projects will be to design and construct a small building which will be sold at the end of the course.

Materials

School will supply the materials for this course. Students must bring to class and wear the following clothing when working in the shop. Suitable work pants, shirt, and closed toe footwear. Students are also required to have instructor approved eyewear protection. A sharp pencil is also required in this class.

Assessments

Students will be assessed in This Old House by actual successful completion of each activity, CTE math problems, and group participation on the building construction and other class activities identified during the year.

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|---|------|
| d. Multiple choice quizzes and constructive responses (Why, how an activity is performed and application of knowledge). | 10% |
| e. Assessment of skills based activity (This activity will demonstrate the student’s understanding of shop safety, use of tools and equipment, and basic joinery techniques). | 30% |
| d. Daily assessment (attendance, participation, etc.) | 50% |
| e. Assessment of final project. | 10% |
| | 100% |

Assessment Grading

Highly Proficient...90-100%	Proficient...75-89%
Developing...65-74%	Not-Proficient...less than 64%

Instructional Materials

The majority of the instruction in This Old House is provided by individual teacher instruction. Periodically, the teacher may assign reading from selected texts and/or readings or assignments via other resources.

For additional information regarding This Old House please contact Mr. Robert Ashler or by email at rashler.wishkah.org.

Forms/Syllabus

Course Syllabus

Physical Education K-12 2016-2017

Instructor: Mr. Robert Ashler

The first component of this course is to go through the steps of actual construction of a stick built building. We will start with planning, go to foundation construction, framing, roofing, wiring, plumbing, insulation, sheet rocking & mudding, painting and finish trimming. We will try to construct a mini-building using all of the above steps. The second component will be the exploration of the math used in the construction process. This will include how to figure how much of any of the materials we will need without coming up short or wasting material. How to figure angles of construction for corners, roof line and plumbing drainage. We will also need to be able to figure cost, volume, area, and the cost of shipping and getting building permits. All of the things involved in this course are designed to have an applicable function and give students a very hands-on building experience.

This course introduces students to the following elements of woodworking; shop safety, project design, materials, processing materials and construction, fasteners, finishing, and job opportunities in this area. Students will complete a skills project and other projects (group/individual) during the semester.

Students will be graded by written assessments and each day a student has the potential to gain 100 points, based on attendance, participation, safety and project progress. Total accumulated points divided by the possible accumulated points determine the grade. When students are not in class they receive 0 points, but there are opportunities to make this time up. Basic materials to complete the class will be provided and other materials may have to be purchased by students. Suitable clothing and safety items (eye protection) are required in this class.

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1. Shop Safety
 - e. Hand Tools
 - f. Power Tools and Equipment
 - g. Individual Safety
 - h. Measuring Tools

6. Introduction to Materials (Structure, Manufacturing, etc.)
 - a. Wood Based Materials (natural and composition)
 - b. Non-Wood Materials
 - c.
7. Process for Construction
 - a. Foundation construction,
 - b. Framing,
 - c. Wiring,
 - d. Plumbing
 - e. Insulation
 - f. Sheet rocking & mudding
 - g. Painting
 - h. Roofing
 - i. Finish trimming.

8. CTE Mathematics
 - a. Material and Project Estimation

9. Opportunities in the Area of Wood Construction and Manufacturing

Activities

During the course students will perform competency based activities in the above aspect of construction. Our class projects will be to design and construct a small building which will be sold at the end of the course.

Materials

School will supply the materials for this course. Students must bring to class and wear the following clothing when working in the shop. Suitable work pants, shirt, and closed toe footwear. Students are also required to have instructor approved eyewear protection. A sharp pencil is also required in this class.

Assessments

Students will be assessed in This Old House by actual successful completion of each activity, CTE math problems, and group participation on the building construction and other class activities identified during the year.

- f. Multiple choice quizzes and constructive responses (Why, how an activity 10%

Forms/Syllabus

is performed and application of knowledge).

- | | |
|---|------|
| g. Assessment of skills based activity (This activity will demonstrate the student's understanding of shop safety, use of tools and equipment, and basic joinery techniques). | 30% |
| d. Daily assessment (attendance, participation, etc.) | 50% |
| e. Assessment of final project. | 10% |
| | 100% |

Assessment Grading

Highly Proficient...90-100%	Proficient...75-89%
Developing...65-74%	Not-Proficient...less than 64%

Instructional Materials

The majority of the instruction in This Old House is provided by individual teacher instruction. Periodically, the teacher may assign reading from selected texts and/or readings or assignments via other resources.

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