

Syllabus

Woods II - Construction Technology

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COURSE DESCRIPTION / OBJECTIVES

This is an advanced course that will build on the skills you learned in Woods I - Home Repair. You will be constructing a variety of woodworking projects. You will learn the proper use of many hand-tools, power-tools, and machines used in home repair. You will design, construct, and test a balsa wood bridge. You will learn how to read and create technical drawings.

UCHS CLASSROOM EXPECTATIONS

All school rules found in the UCHS Student Discipline Handbook apply in this classroom!

Respect is the number one expectation. Respect yourself, others, the equipment, and the classroom. This includes being on-time and prepared, active in class, focusing on completing your activities, and assisting others if/when needed.

Other Classroom Expectations include:

- NO FOOD in the Classroom! You may have a drink container but it MUST be kept at the designated table.
- No personal electronic equipment! This includes ear-buds and charging your phone.

UNIT OUTLINE / SCOPE AND SEQUENCE OF COURSE

Measurement: Standard and Metric Linear measurement. Add, Subtract, Multiply, and Divide fractions. Determine and Apply angles. Apply formulas for Area, Mass, Volume, Distance and Force
Hand/Power Tools and Machines: Understand the proper use and capabilities of many hand/power tools and machines found in home repair and general construction. Choose and safely operate the right tool and machine for the given task. Know, understand and apply all Shop Safety Rules. Follow the correct tool and machine use and maintenance.

Materials; Products, Processes, and Possibilities: Determine the strength, and properties of different materials. Learn Industry accepted processes and practices. Understand the different plastics, metals, and materials used in construction especially residential plumbing and electricity.

Planning, Design and Lay Out: Know how to plan efficiently to help solve problems, avoid mistakes and use correct techniques. Correctly Lay-out projects to help choose the correct tools and avoid waste.

Sawing, Drilling, Filing, Chiseling, Planing, Shaping, Jointing, and Turning: Know the correct techniques to accurately and safely use the tools and machines needed to perform a variety of tasks found in residential homes as well as in the construction industry.

Fasteners, Finishing, and Hardware: Apply the proper techniques to enhance the beauty or your project. Determine the right hardware, parts, and components for your project to operate correctly. Know the right part for the job you want to accomplish.

GRADING

Your grade in this course will be based on the following:

SUMMATIVE ASSESSMENT - 70%

PROJECTS

Balsa Wood Bridge
Tool Shed Construction

UNIT TESTS and QUIZZES

A general knowledge test will be given at the end of each project using any information covered while making that project.

Students have one week to retake that test if not satisfied with the score. Index cards are not allowed on retakes. .

FORMATIVE ASSESSMENT – 30%

ASSIGNMENTS

Homework and classroom assignments will be given to reinforce concepts and expand on information given in class. Students will complete various Wood workbook units as well. University City School

GRADING SCALE:

A = 100% - 90%, B = 89% - 80%, C = 79% - 70%, D = 69% - 60%, F = 59% or less

INSTRUCTIONAL METHODS

Lecture and Discussion. Note giving via Zoom Classroom. Videos, oral presentations & guest speakers. Collaborative group & inquiry based learning. Instructor demonstrations, Cooperative Learning, Individual and Group instruction, Lecture, Homework, Activity-Project-Problem Based Learning.

REQUIRED MATERIALS

Working computer or charged Chromebook. Bridge Building materials. This will be supplied to you.

MATERIALS

Students will be given all the materials needed to construct a balsa wood bridge.

Course material will be given frequently throughout this course. Any information in the material may be used on the Unit Tests and Quizzes.

LATE WORK POLICY

Anytime a student is absent, it is YOUR responsibility to find out if any assignment was given and to obtain a complete that assignment. Assignment due dates will be posted. A full letter-grade will be deducted for each class period that an assignment is late.

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This syllabus is for your convenience and reference. The rules are to help prepare you for future endeavors (college or work). By signing, it confirms that you have read the information given to you. Your signatures verify that you understand, and agree to the policies established for this course

Student typed name _____ Class period _____

Parent typed name _____

Date _____