EL DORADO UNION HIGH SCHOOL DISTRICT
Educational Services

Course of Study Information Page

Course Title: Wood 1 (#520)	
Rationale: This is an introduction into the world of woodworking where the student will learn the basics of cabinetmaking, millwork, and construction as it relates to the industry.	
Course Description: Basic techniques in cabinet making, furniture construction, upholstery, wood finishing and wood turning. Students develop accuracy, judgment and craftsmanship and participate in creative project activities. The correct and safe uses of tools, machines, materials and processes are emphasized. Second semester offers techniques in finish carpentry, wood finishing related to these areas and wood turning. The student will use tools, machines and techniques related to the light construction industry. Accuracy, neatness, and sound work habits and safe work practices are stressed.	
Length of Course:	1 Year
Grade Level:	10 - 12
Credit: Number of units 5 units per semester □ Meets graduation requirements □ Request for UC "a-f" requirements □ College Prep : Elective : Vocational	
Prerequisites:	Shop Fundamentals or teacher permission
Department(s):	Trades and Industries
District Sites:	El Dorado High School
Board of Trustees Adoption Date:	5-9-00
Textbook(s)/Instructional Materials:	Cabinetmaking and Millwork; John L. Feirer; 5th Edition, 2000
Date Adopted by the Board of Trustees:	5-23-00

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Educational Services

Wood 1

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EL DORADO UNION HIGH SCHOOL DISTRICT
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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme)

Students will develop an awareness and understanding of the importance of personal safety and how to practice it.

State/National Standards

201: Personal Safety

Give examples of student work that demonstrates mastery of this standard

1. Safety test results.
2. Observation of student practices in the shop.
3. Safety reinforcement notebook.

Identify best practices used to teach standard

Modeling by teacher.

Lecture.

Hands-on testing.

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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme)

Awareness of safety considerations unique to the wood shop environment, including tool-specific safety.

State/National Standards

202: Work Site Safety

Give examples of student work that demonstrates mastery of this standard

1. Safety reinforcement notebook.
2. Observation of student demonstrations on specific tools.
3. Safety test.

Identify best practices used to teach standard

Modeling by teacher.

Lecture.

Hands-on testing.

EL DORADO UNION HIGH SCHOOL DISTRICT
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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme) Accurate measurements and math appropriate to wood shop projects.
State/National Standards 203: Manufacturing Math
Give examples of student work that demonstrates mastery of this standard 1. Measuring board feet of materials. 2. Calculating cost of project. 3. Computing waste. 4. Optimum cutting plan.
Identify best practices used to teach standard Lecture. Teacher-generated examples (hand-outs). Student worksheets.

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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme) Ability to communicate ideas for projects through written text and drawings. Ability to work with partners and in groups.
State/National Standards 204: Communication Skills
Give examples of student work that demonstrates mastery of this standard 1. Student created project plans. 2. Procedures list.
Identify best practices used to teach standard Modeling. Teacher-generated examples. Student worksheets.

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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme) Students will understand the names, functions, and safe use of the machines used in wood product manufacturing.
State/National Standards 208: Tools and Machines
Give examples of student work that demonstrates mastery of this standard 1. Tool identification hand-outs and tests. 2. Completed wood projects.
Identify best practices used to teach standard Modeling by the teacher. Lecture. Supervised use of tools and machines.

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Department: Trades and Industry Grade L

Course: Wood I

"Big Idea" (Theme)

Students will know the names, properties, and appropriate use of materials used in product manufacturing.

State/National Standards

209: Materials and Supplies

Give examples of student work that demonstrates mastery of this standard

1. Wood identification test.
2. Test on parts and properties of a tree.

Identify best practices used to teach standard

Teacher demonstration and lecture.

Student use and experimentation with different woods and wood products.

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Course: Wood I

"Big Idea" (Theme) Students will demonstrate the ability to read and interpret prints used in wood product manufacturing.
State/National Standards 211: Print Reading
Give examples of student work that demonstrates mastery of this standard 1. Build projects from a print supplied by the instructor.
Identify best practices used to teach standard Explanation of print used for any project.

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"Big Idea" (Theme)

Students will understand how to estimate the cost of their project and the importance of this.

State/National Standards

212: Estimating

Give examples of student work that demonstrates mastery of this standard

1. Calculating board feet.
2. Determining other costs (fasteners, finish products, sandpaper, etc.).

Identify best practices used to teach standard

Explanation of all various cost factors.

Exercises and hand-outs to determine board feet.

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"Big Idea" (Theme) Students will understand the planning process (print reading, scheduling, ordering materials, etc.).
State/National Standards 213: Planning
Give examples of student work that demonstrates mastery of this standard 1. Reading prints, estimating costs, planning for time involved.
Identify best practices used to teach standard Explanation of schedule. Lecture and hand-outs concerning print reading, estimating.

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Course: Wood I

"Big Idea" (Theme) Students will understand the layout process (measuring, marking, reading prints, etc.) and the importance of these processes.
State/National Standards 214: Layout
Give examples of student work that demonstrates mastery of this standard 1. Measuring wood, marking project parts, laying out design.
Identify best practices used to teach standard Teacher demonstration, lecture, and applied practice.

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Course: Wood I

"Big Idea" (Theme)

Students will understand the procedures and techniques used in constructing joints for wood product manufacturing.

State/National Standards

215: Millwork and Joinery

Give examples of student work that demonstrates mastery of this standard

1. Safely and accurately set up and use machines to process materials and construct wood joints.

Identify best practices used to teach standard

Show examples of different joints.

Construct different joints through demonstration.

Use a completed project as a model.

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Course: Wood I

"Big Idea" (Theme)

Students will understand the procedures and techniques of constructing cabinet casework (layout, milling, assembly, etc.).

State/National Standards

231: Case Construction

Give examples of student work that demonstrates mastery of this standard

1. Safely and accurately lay out and fabricate cabinet cases and identify the tools, machines, and materials used.

Identify best practices used to teach standard

Lecture and demonstration.

Modeling of a completed cabinet.

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Course: Wood I

"Big Idea" (Theme)

Students will understand the procedures and techniques of constructing doors and drawers for furniture.

State/National Standards

234: Doors and Drawers

Give examples of student work that demonstrates mastery of this standard

1. Students will safely and accurately fabricate doors and drawers for furniture and identify the tools, machinery, and materials used.

Identify best practices used to teach standard

Modeling by teacher.

Lecture.

Hands-on testing.

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Course: Wood I

"Big Idea" (Theme)

Students will understand the procedures and techniques of installing hardware on furniture and woodcraft products (hinges, shelving hardware, etc.)

State/National Standards

235: Furniture Hardware

Give examples of student work that demonstrates mastery of this standard

1. Safely and accurately install hardware on furniture and woodcraft products and identify tools, machines, and materials used.

Identify best practices used to teach standard

Modeling by teacher.

Lecture.

Supervised use of tools and machines.

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Course: Wood I

"Big Idea" (Theme) Students will understand the procedures and techniques of woodcraft construction, including turning, and know the tools and materials used.
State/National Standards 237: Wood Craft Manufacturing
Give examples of student work that demonstrates mastery of this standard 1. Demonstrate the ability to turn woodcraft products on a lathe.
Identify best practices used to teach standard Lecture. Demonstration. Supervised use of machinery.

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