

YOSEMITE REGIONAL OCCUPATIONAL PROGRAM

THEATER STAGECRAFT 1-4 (Theater Construction & Mechanics)

CBEDS Code: 5527

JOB TITLES

Theatrical Scenic Designer

DOT NO.

142.061-050

Course description:

This course is designed as a year of study in theater arts for those who are interested in stage production work rather than acting. The emphasis is on all aspects of dramatic production: scene and construction, publicity, and budgeting. Students with backgrounds in construction, and art will get experiences in technical aspects of play production.

Recommended Prerequisites: None

DURATION: (360) hours

CREDIT: 5 units per semester

ARTICULATED WITH POSTSECONDARY INSTITUTIONS: No

REPLACES: N/A

RESOURCE MATERIALS

Basic Text(s):

Scene Design and State Lightning. W. Oren Parker, Harvey K. Smith. Holt, Rinehart & Winston, New York, 6th edition.

Supplementary Text(s):

Stage Make-Up. Richard Corson.

Historical Costume for the Stage. Lucy Barton.

Market the Arts. Foundation for the Extension & Development of the American Professional Theatre.

Instructional Content

Instruction will include:

Student Outcomes

At the end of instruction, the student will be able to:

Hours

CL=Classroom
CC=Comm. Class.

| | | | | | |
|---|---|---|--|----------------------------|------------------|
| <p>1.1 Making Informed Aesthetic Judgments.</p> <ol style="list-style-type: none"> 1. Developing criteria to evaluate works of art and nature. 2. Processes for making & justifying judgments about aesthetic qualities. 3. Techniques to analyze visual relationships based on aesthetic values. | <p>Goal: To provide students with a base for making informed aesthetic judgments.</p> <ol style="list-style-type: none"> A. Make informed responses to works of art, nature, & other objects within the total environment by using objective criteria for analysis, interpretation & judgment. B. Derive meaning & value from experiences by making & justifying judgments about aesthetic qualities in works of art & other objects within the total environment. C. Use analysis, interpretation, & judgment about visual relationships based on learned aesthetic values to improve art production. | <p>Anchor and CR</p> <p>2.0-2.6 4.0-4.5 5.0-5.4</p> | <p>CTE</p> <p>B&C B6.3 B8.1 B8.2 C4.2</p> | <p>CL</p> <p>20</p> | <p>CC</p> |
| <p>2 SPECIFIC EXPECTATIONS</p> <p>2.1 Introduction to Technical Theater.</p> <ol style="list-style-type: none"> 1. Assigning individual responsibilities in performances or presentations. 2. Terminology used in the field. 3. Describe supportive roles as related to outside activities. | <p>Goal: To provide students an overview of technical theater, including safety, individual responsibility, terminology, & supportive roles.</p> <ol style="list-style-type: none"> A. Assume individual responsibility in one or more performances or presentations as stage manager, crew leader, and/or lighting master. B. Learn & understand terminology dealing with the theater facility, stage equipment, lighting & sound. C. Learn & understand supportive roles as related to outside activities such as assemblies, community performances, & dance productions. | <p>1.0 3.1, 3.2 5.0-5.4 6.2-6.7 7.2, 7.7 7.5 9.2 9.3 9.7</p> | <p>AME A8.2 A8.4 A8.6 B&C B6.3 B8.1 B8.2 D2.9</p> | <p>65</p> | |
| <p>2.2 Safety</p> <ol style="list-style-type: none"> 1. Review district's safety program 2. Administer shop safety tests and explain shop safety 3. Parental acknowledgment of safety requirements and conduct expectations 4. Appropriate site maintenance practices, cleaning and appropriate storing and stacking of materials. | <p>Goal: The student will understand the importance of personal safety, work-site safety, & ladder & scaffold safety.</p> <ol style="list-style-type: none"> A. Satisfactorily complete district's safety program B. Pass shop safety tests and demonstrate shop safety. C. Obtain parental acknowledgment of safety requirements and conduct expectations D. Safely administer appropriate site maintenance practices, including cleaning and appropriate storing and stacking of materials | <p>1.0 2.0-2.6 4.3 5.0-5.4 6.0-6.7 7.2, 7.3 7.7 8.1, 8.2, 8.4 10.1- 10.4</p> | | <p>16-20</p> | <p>20</p> |
| <p>2.3 Scenery & Stage Properties</p> <ol style="list-style-type: none"> 1. The history of staging. 2. Safe operation of equipment used to build sets. 3. Proper procedures in building, painting, & rigging scenery. 4. Floor plans & elevations. 5. Property (prop) list inventory procedures. | <p>Goal: To provide students with the necessary procedures & techniques to work with scenery & stage properties.</p> <ol style="list-style-type: none"> A. Learn & understand the history of staging & how it has been applied by various periods & cultures. B. Safely operate the equipment necessary to build sets. C. Understand & demonstrate the proper procedures in building, painting, & rigging scenery. D. Design, execute, & interpret floor plans & elevations. E. How to research, generate & inventory a property (prop) list for any theater productions. | <p>1.0 4.1-4.3 5.0-5.4 6.0-6.7 7.1, 7.2, 7.3-7.5 7.7 8.1, 8.3, 8.4 9.2, 9.6, 9.7 10.1- 10.4</p> | <p>AME B6.3 B&C D2.2 D2.3 D3.1 D3.2 D4.1 D4.4 D6.5 D6.6 D6.7 D6.8 D7.1 D7.4 D7.5 D7.8 D8.8</p> | <p>65</p> | |

Instructional Content

Student Outcomes

Hours

Instruction will include:

At the end of instruction, the student will be able to:

CL=Classroom
CC=Comm. Class.

| <p>2.4. Hand tools</p> <ol style="list-style-type: none"> Review non-power hand tools use in field. Safe and appropriate use of each tool. Review all parts of each hand tool used on the job. Maintenance and sharpening of tools. Prices of tools used in building a set. | <p><i>Goal: The student will understand the names, functions, & safe uses of the nonpower hand tools used in construction technology.</i></p> <ol style="list-style-type: none"> Properly identify and use hand tools, including measuring devices, levels, squares, hammers, bard, wrenches, saws, clamps, screwdrivers, pliers, drill bits, chisels, and planes. Practice safe and appropriate use of each tool. Identify all parts of each hand tool used on the job Properly maintain and sharpen each tool Tally a list of tool prices to be used when building a house | <p>Anchor and CR</p> <p>1.0 5.0 5.4 6.0-6.7 7.2, 7.5 7.7 8.1 8.4 10.1-10.3</p> | <p>CTE</p> | <p>CL</p> <p>2-4</p> | <p>CC</p> <p>4</p> |
|---|--|---|---|-----------------------------|---------------------------|
| <p>2.5 Small power tools</p> <ol style="list-style-type: none"> Supervised manipulation of small power tools Proper and safe operation of saws, drills, planes, sanders, and routers Review function of each small power tool used Maintenance of small power tools Written and practical tests will be administered prior to any manipulative activity Review all parts of each small power tool Maintenance of tools, including sharpening when appropriate | <p><i>Goal: The student will understand the names, functions, & safe uses of the power tools & machines used in construction technology.</i></p> <ol style="list-style-type: none"> Show competence in using small power tools through supervised manipulation Operate saws, drills, planes, sanders, and routers properly and safely Describe the function of each small power tool used. Respect and maintain the tools Successfully complete written and practical tests prior to any manipulative activity Identify all parts of each small power tool Properly maintain each tool, including sharpening when appropriate | <p>1.0 5.0- 5.4 6.0-6.7 7.2, 7.5 7.7 8.1, 8.4</p> | | <p>2-4</p> | <p>4</p> |
| <p>2.6. Power machinery</p> <ol style="list-style-type: none"> Administer written, visual, and oral test on each power machine demonstrated Safe operation of the sliding power miter saw, table saw, drill press, nailers, staplers and other necessary power machinery Review all parts on power machinery Proper maintenance and sharpening of bits/blades on each power machine. | <p><i>Goal: The student will demonstrate competency using power machinery</i></p> <ol style="list-style-type: none"> Pass a written, visual and oral test on each power machine operated. Safely operate the sliding power miter saw, table saw, drill press, nailers, staplers and other necessary machinery Identify all parts on all power machines Properly maintain and sharpen all bits/blades on each power machine. | <p>1.0 5.0-5.4 6.0-6.7 7.2, 7.5 8.1, 8.4</p> | | <p>2-4</p> | <p>4-6</p> |
| <p>2.7. Construction math</p> <ol style="list-style-type: none"> Calculation of squares, the right triangle and its uses, and cubic measurement Use of tape measure and architect's scale Angle measurement | <p><i>Goal: The student will understand mathematical processes & how to apply them in the construction industry.</i></p> <ol style="list-style-type: none"> Figure squares, the right triangle and its uses, and cubic measurement Master the tape measure and the architect's scale. | <p>1.0 5.0-5.4 7.7 8.1 10.1 10.3</p> | <p>B&C D2.1 D2.2 D2.3</p> | <p>4-6</p> | <p>4-6</p> |

Instructional Content

Student Outcomes

Hours

Instruction will include:

At the end of instruction, the student will be able to:

CL=Classroom
CC=Comm. Class.

| 2.8. Fasteners and hardware | <i>Goal: The student will demonstrate the understanding of fasteners & hardware.</i> | Anchor | CTE | CL | CC |
|---|---|--|---|--------------------------------------|---------------------------------|
| <ol style="list-style-type: none"> 1. Anchors, nails, screws and staples. 2. Use of adhesives, anchors, nails, screws, and staples. 3. Installing fasteners in or through a piece of wood. 4. Review and identify “fastener” and “hardware.” 5. How fasteners and hardware are used in constructing a set. 6. Screw and nail fasteners 7. Pneumatic and electrical fastening devices 8. Comparing power driven fastening devices and hand operated tools. | <ol style="list-style-type: none"> A. Identify different types of anchors, nails, screws, and staples. B. List and describe proper use of adhesives, anchors, nails, screws and staples. C. Install each fastener in or through a piece of wood. D. Define the words “fastener” and “hardware”. E. Observe, then use, fasteners and hardware in constructing a house F. Differentiate between screw and nail fasteners. G. Operate the different pneumatic and electrical fastening devices used in today’s construction. H. Price each power driven fastening device and compare it to a standard hand operated tool that will do the same job | 1.0 4.1-4.3 5.1-5.4 6.3 6.5 6.6 6.7 7.5 8.1 10.1-10.4 | B&C D8.1 D8.3 | 50-52 | 52-56 |
| 2.9. Abrasives <ol style="list-style-type: none"> 1. Garnet, aluminum oxide, and silicone carbide sandpaper 2. Sanding techniques 3. Compare hand sanding, small power tool sanding, and machine sanding | <i>Goal: The student will demonstrate competency in identifying & using abrasives</i> <ol style="list-style-type: none"> A. Differentiate between garnet, aluminum oxide, and silicone carbide sandpaper. B. Perform proper sanding techniques. C. Smooth a board using each type of sandpaper. D. Evaluate the difference between hand, small power tool, and machine sanding techniques. | 1.0 5.0-5.4 6.5 6.6 6.7 8.1 | B&C D7.4 D7.5 D8.4 | | 2 |
| 2.10. Finishes and coatings. <ol style="list-style-type: none"> 1. Proper use of patching materials. 2. Methods to apply paint 3. Staining wood. 4. Use of finishing equipment. | <i>Goal: The student will understand the application of finishing materials.</i> <ol style="list-style-type: none"> A. Use patching materials to fill marks and dents. B. Spray, roll and brush the paint. C. Apply interior and exterior paint to given surfaces. D. Stain wood by brushing and wiping on the finish. E. Spray on paint, using pneumatic equipment | 10 4.1 4.3 5.0-5.4 6.1-6.7 8.1 10.1 10.3 10.4 | B&C D2.1 D2.3 D7.1 D7.4 D7.5 D8.8 | 38-40 N/A | 38 1 |
| 2.11 Print reading <ol style="list-style-type: none"> 1. Review construction drawings, and the lines and symbols utilized. 2. Using an architect’s scale, angles and different drafting 3. Review measuring instruments’ used. | <i>Goa: The student will understand the use of blueprints in the planning and layout process and demonstrate comprehension of print reading.</i> <ol style="list-style-type: none"> A. Use an architect’s scale, as well as angles and different drafting B. Thoroughly understand measuring instruments used in construction, including tapes, rules, levels | 1.0 | B&C D3.1 D3.2 D3.3 D3.5 | 5 | 5 |

Instructional Content

Student Outcomes

Hours

Instruction will include:

At the end of instruction, the student will be able to:

CL=Classroom
CC=Comm. Class.

| 2.12 Estimating costs 1. Factors necessary to estimate a given job 2. Defining the word "estimate" and how it is used when figuring a job. 3. How to estimate the cost of a set. | Goal: The student will be able to determine how to "estimate" the cost of a given job A. Determine types, sizes, and amounts of materials, labor, overhead costs, and profits necessary to estimate a given job. B. Define the word "estimate" and how it is used when figuring a job C. Estimate the cost of the set being built | Anchor 1.0 2.2 2.4 4.1 4.3 5.1-5.4 7.1, 7.2, 7.5 | CTE B&C D2.1 D2.2 D2.3 D3.5 | CL 2-4 | CC 2-4 |
|---|--|---|---|----------------------|----------------------|
| 2.13 Laying out walls and partitions 1. Use of sketches and drawings in layout. 2. Study different types of wall frames, wall and stud layout, and window and door layout. 3. Corner posts and partition studs, and their uses. 4. Wall bracing, lining, and plumbing, and backing for interior finish & attachment. 5. Framing lines. 6. Bottom & top plates for studs, windows, doors, and modular wall section breaks. 7. How to cut plates, studs, windows, and door headers, cripples, and sills. 8. Nailing wall sections together, raising into place, and anchoring adjacent wall sections. 9. How to tie all walls together. 10. How to plumb and line the walls. | Goal: The student will understand the processes, & demonstrate competency in laying out walls and partitions. A. Read sketches & drawings for proper layout. B. Show understanding of the different types of wall frames, wall and stud layout, and window and door layout. C. Identify corner posts and partition studs, and their uses. D. Layout and snap framing lines. E. Layout bottom & top plates for studs, windows, doors, and modular wall section breaks. F. Cut plates, studs, windows, and door headers, cripples, and sills. G. Nail wall sections together on the floor, rise into place, and anchor adjacent wall sections. H. Tie all walls together with top plates. I. Plumb and line the walls. | 1.0 2.1 5.1-5.4 6.2-6.6 7.7 8.1 9.1 9.7 9.2 10.2 10.3 10.4 | B&C D6.4 D6.5 D6.6 D6.7 D6.8 D6.13 D8.6 | | 36-40 |
| 2.14 Interior finishes 1. Specifications and tools used for interior finish work. 2. Finish hand tools. 3. Interior wall coverings. 4. Installing baseboards, crown molding. 5. Hanging and trimming interior doors. | Goal: The student will understand the installation of interior finishing materials, & the application of exterior finishes. A. Use finish hands tools B. Demonstrate an understanding for interior wall coverings C. Explain how, and install baseboards and crown molding. D. Hang and trim interior doors interior /exterior finish unit | 1.0 5.0-5.4 6.2-6.7 7.1, 7.5 8.1 10.1-10.4 | B&C D7.1 D7.4 D7.5 D7.8 D8.5 D8.8 | 45-55 | 45-55 |
| 2.15 Stage Lighting 1. Review stage lighting equipment & control systems. 2. Placement of lights & calculating lighting intensity. | Goal: To provide students with knowledge of stage lighting equipment & placement. A. Demonstrate knowledge of stage lighting equipment & control systems. | 1.0 4.1 5.1-5.4 6.2-6.7 | AME B8.3 B&C D2.3 D2.9 D11.1 D11.7 D11.8 D11.10 D11.11 | 20 | |

Instructional Content

Student Outcomes

Hours

Instruction will include:

At the end of instruction, the student will be able to:

CL=Classroom
CC=Comm. Class.

| 2.15 Stage Lighting (Continued) | B. Understand the theory associated with the placement of lights & calculation of lighting intensity. | Anchor 8.1 10.1-10.4 | CTE | CL | CC |
|--|--|--|---|------|-----|
| 2.16 Electrical System 1. Determining number of circuits needed 2. Service panel layout 3. Requirements for special purpose circuits | <i>Goal: The student will know the materials, procedures, techniques, & processes used in electrical wiring.</i> A. Determine number of circuits based on wattage demand. B. Lay out of the service panel. C. Requirements for special purpose circuits, including utility circuits, GFCI circuits and lighting circuits. D. Use floor plans to determine electrical need for plugs, lights, and switches. | 1.0 4.1 5.1-5.4 6.2-6.7 8.1 10.1-10.4 | B&C D11.1 D11.3 D11.4 D11.7 D11.10 D11.11 | 6-10 | 3-5 |
| 2.17 Sound Systems 1. Stage sound equipment & control systems operation. 2. Review theory of appropriate use of sound equipment. | <i>Goal: To provide students with an understanding of theory & operation of stage sound equipment.</i> A. Satisfactorily operate stage sound equipment & control systems. B. Understand the theory of appropriate use of sound equipment. | 1.0 4.1 5.1-5.4 6.2-6.7 8.1 10.1-10.4 | B&C D11.8 | 30 | |