Stagecraft II

TH3301

Spring 2016

Classroom: MPAC 130
Lecture 11:30-12:45am M,W,F
Office Hours: MWF 10 – 11am

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Course Description:

A continuation of Stagecraft using advanced construction techniques and materials

Student Learning Outcomes:

UMD SLO #2: Construct, integrate and apply knowledge from instruction and experience.

Th-03: Effectively prepare and execute work for production.

As a continuation of TH1301, students will develop new construction skills in areas of intermediate carpentry and metalworking which will later be applied to practical exercise.

Students will also engage in hands-on exploration of;

- fluid power in the form of working with pneumatic systems.
- Intermediate rigging skills specifically in the use of chain hoists and slings.

Textbook:

Illustrated Theatre Production Guide, third edition, John Holloway, Focal Press, 2010.

Other Related References:

The Backstage Handbook, third edition, by Paul Carter, Broadway Press, 1994.

The Stage Rigging Handbook, third edition by O. Jay Glerum, 2007.

Required Equipment:

25' Steel tape measure, a #2 Pencil, PPE to include ear and eye protection.

Student Conduct Code:

Appropriate classroom conduct promotes an environment of academic achievement and integrity. Disruptive behavior that substantially or repeatedly interrupts either the instructor's ability to teach, or student learning is prohibited. Students are expected to adhere to Board of Regents Policy: Student Conduct Code: www1.umn.edu/regents/policies/academic/Student_Conduct_Code.pdf.

Attendance:

Attendance is required and will be taken. An excused absence is defined by the University and you can read more about the policy at www.d.umn.edu/vcaa/ExcusedAbsence.html. Any known absences

should be made know to the instructor immediately. If you are ill, you must notify the instructor BEFORE class otherwise it will be counted as an unexcused absence. The impact of absences are keenly felt on a class of this nature and size. Full accounting of attendance in the overall grade is described below.

Grading:

As with all subjective classes in the arts, your personal growth in a skill area is just as important as the grade you receive in a particular project. With that in mind your overall grade will be determined as follows;

15% On-time attendance at all classes
15% Class participation is discussion and in-class projects as well as the instructor's awareness that you are actively participating in the learning process.
70% Successful competition of project work listed below.

Cut-list worksheets: Correctly create cut lists for given drawings.
Odd Flat/Platform Drawings: Draft framing for odd shaped units.
Deck Layout: From a given drawing map out stock units to minimize build
Miter Project: Create regular sided geometric figures using miter joints
Fly-A-Flat Project: Rig a given flat to fly from a batten
3L/3T/3M Project: Create 9 welded joints which will be subjected to destructive testing
Triangle project: Create an equilateral triangle practicing jig construction and finishing techniques.
Fluid Power Project: Apply a pneumatic braking system to a wagon unit

Grade Breakdown: 100 – 90%: A, 89 – 80%: B, 79 – 70%: C, 69 – 60%: D, 59 – 0%: F

Course Calendar

All projects/dates are subject to change

Date	Topic	Assignment due for class
1/20	Review syllabus, discuss and review PPE.	
1/22	Review basic flat construction techniques, cut-lists	
1/25	Discuss alternative construction techniques for flats	**Cut-list worksheet**
1/27	Review basic platform construction	
1/29	Discuss construction techniques for odd shaped platforms	**Odd Flat Drawing**
2/1	Discuss different ways to leg platforms	**Odd Platform Drawing**

2/3	Raked stages	
2/5	Making the most of you stock	
2/8	Miter Project	**Deck Layout**
2/10	Miter Project	
2/12	Working with Moulding profiles	**Miter Project**
2/15	Review of Rigging Systems	
2/17	Discussion of ropes and knots	
2/19	Rigging Hardware and Wire Rope Termination	
2/22	Flying Scenery	
2/24	Fly a Flat	**Fly a Flat**
2/26	Rigging with Chain Hoists	
2/29	Metal working tools and materials	
3/2	Safety equipment and environment	
3/4	Plasma Cutting	
3/14	Introduction to MIG welding	
3/16	No Class – USITT Convention	
3/18	No Class – USITT Convention	
3/21	MIG welding practice	
3/23	3D Art Project	
3/25	3D Art Project	
3/28	Joinery for real	
3/30	3M/3L/3T practice	
4/1	3M/3L/3T for real	
4/4	Laying out jigs	**3M/3L/3T Project**
4/6	Finishing techniques	
4/8	Triangle Project	
4/11	Introduction to fluid power	
4/13	Basic pneumatic actuators	
4/15	Plumbing and control	**Triangle Project**
4/18	Practical exercise in fluid power	
4/20	Practical exercise in fluid power	
4/22	Practical exercise in fluid power	
4/25	Stair construction	

4/27	TBA
4/29	TBA