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Fall 9-1-2000

DRAM 300.01: Theatre Workshop - Master Electrician

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DRAM 300 ~ Fall 2000
Master Electrician Class
Monday / Wednesday 8:00-9:00
PARTV 131

INSTRUCTOR: Brian Hapcic Rm. 131 - Light Shop

Office Hours: Monday through Thursday, 2:00 PM- 5:00, except when work on university productions prohibits these times.

TEXT: Photometrics Handbook, 2nd Edition; Robert C. Mumm
Backstage Handbook, 2nd Edition; Paul Carter

It should be clearly understood that these texts will serve as resources only. They can be extremely useful as references for troubleshooting. Lectures will not follow chronological order of any of these texts. Terminology and practice may also differ. These factors make class attendance essential if the student wishes to succeed in the class.

GOALS: The purpose of this class is to introduce the fundamentals of working as a Master Electrician in the Theatre, Concert and Corporate Industries. Students will be introduced to the practical applications of planning, paperwork, power distribution, rigging, basic maintenance, directing a crew, troubleshooting, creative problem solving, computer skills, and light board operations.

The class will concentrate on hands on applications designed to sequentially develop the student's skills and understanding. We will use as broad a selection of equipment as possible.

REQUIREMENTS:

Class attendance is a must. There will be 0 unexcused absences.

No project will be accepted late by any amount of time.

A production assignment will be given to each student as AME.

SUGGESTED MATERIALS:

Multi-tester	Work Gloves	Tape Measure
Pocket Flashlight	8" Adjustable Wrench	Nut Drivers
Pocket Multi-tool	Diagonal Cutters	Screw Drivers
Wire Strippers	Soldering Iron	Various Pliers

PROJECTS:

Project 1 - Paperwork

Each student will create a complete set of paperwork from a given light plot. Students are encouraged to design and implement their own style of paperwork that includes Channel Hookup, Instrument Schedule, Equipment List, Gel Cut Sheet.

50 Points

Project 2 - Paperwork

Each student will duplicate the paperwork assignment using computer-generated forms.

50 Points

Project 3 – Full Plot

Each student will create a complete set of paperwork from a given plot, as well as duplicate a 1/2" version of the plot using the computer.

100 Points

Power Worksheets

Each student will demonstrate in class the ability to use formulas to do power calculations.

50 Points

Project 4 – Power Tie In

Each student, under supervision of the instructor, will perform a power tie in on the Montana stage

50 Points

Project 5 – Two Scene Control Boards

Each student will enter a patch and execute a sequence of cues on the Dance Space Lightboard

100 Points

Project 6 - Computer Control Boards

Each student will be required to enter a patch, set up information and basic cues into the Light Palette 90.

100 Points

Project 7- Practicals 1

Each student will present a written solution to a practical wiring challenge

50 Points

Project 8- Practicals 2

Each student will present a written solution to a practical wiring challenge

100 Points

GRADING: Final grades will be based on the following:

Project 1 – Paperwork	50 Points
Project 2 - Paperwork	50
Project 3 - Paperwork and Plot	100
Project 4 - Tie In	50
Project 5 – Two-Scene Control	50
Project 6 - Computer Control	100
Project 7 – Practical 1	50
Project 8 – Practical 2	100
Exam 1 – Lab	50
Exam 1 - Covering all material covered in class	100
Exam 2 - Comprehensive for the entire semester	200
Attendance	100
TOTAL	1000 Points

Extra credit is possible, however the student must receive the instructor's permission before starting a project that is to be used for extra credit.