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DRAM 300.01: Theatre Workshop - Master Electrician

Brian Hapcic
University of Montana, Missoula

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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.