Course | Level Theatre 628: Lighting Production Technology |U/G | Autumn 2008

Description TH 628 is an examination of the craft of theatre technology, with an emphasis on technical projects as associated with the responsibilities of a production electrician.

Instruction Mary Tarantino, tarantino.1@osu.edu, resident lighting designer, DR 087, 688.4349
Matt Hazard, hazard.4@osu.edu, lighting supervisor, DR 2071, 292.4610

Office Hours (MT) M 3:00- 4:00 and T 11:30 – 12:30 (MH) W 9:30-10:30

Class Meetings M+W 10:30-12:18, Drake 2071 (the lighting studio), and various theatres

Required Texts

TH 628 Course Packet, available from Zip Publishing

Required Materials / Tools

Screwdriver with built in bits – Lutz 6 in 1
Wire strippers - Klein or Gardner Bender

Learning Objectives

- to examine the craft of lighting, with an emphasis on all technical aspects
- to construct a series of experiments and projects for a wider understanding of electricity and electronics as applied to theatre
- to explore the production electrician's relationship to theatre production situations

Teaching Method Lecture / Lab / Discussion

Grade Breakdown

Practical Application Projects, 10% each	80%
Course portfolio	20%

Final Exam There is no final exam. The final project will be presented in class on the final meeting.

Attendance Policy Do not be late for class, as attendance is taken at the beginning of every class meeting. Repeated absences and/or tardiness will result in the lowering of the final course grade by ½ letter. One warning will be given prior to this rule going into effect.

Plagiarism is the representation of another's works or ideas as one's own: it includes the unacknowledged word for word use and/or paraphrasing of another person's work, and/or the inappropriate unacknowledged use of another person's ideas. All cases of suspected plagiarism, in accordance with university rules, will be reported to the Committee on Academic Misconduct.

Safety Considerations The phone number for the University Escort Service is 292-3322.

OSU Counseling Center: Younkin Success Center (4th Floor)
1640 Neil Avenue (Just South of 11th Avenue) - 292-5766

Special Needs: If you have a condition or disability which will make it difficult for you to carry our the work as outlined on this syllabus or which will require extra time on examinations or in class work, please contact the Office of Disability Services at http://www.ods.ohio-state.edu/ or at 292-3307 in Room 150 Pomerene Hall.

Lighting Production Technology

Weekly schedule – subject to change

Week	Day	Date	Session / Assignments		Packet Reading	Production Activities: Thurber	Bowen	Studio
1	W	9-20	Course Introduction, Power Set up wiring board					
2	M	9-25	Power and electricity		**Box**			
			PA-1: Basic wiring techniques		**NEC**			
	W	9-27	Control: Cable and dimming	**PA 1 due**	**Gillette**			
3	M	10-2	Conventional fixtures / Demo					
			PA-2: Bench focus techniques	**PA 2 due**				
	W	10-4	Practicals and effects		**Gillette**			
			PA-3: EFX wiring project					
4	M	10-9	Lighting Console Basics / Demo		**Console Op.**			
	W	10-11	Automated fixtures / Demo	**PA 3 due**	**Schiller**			
					Cut Sheets			
5	M	10-16	Power and Data / other Automation / Demo		**Fleenor**			
	W	10-18	**PA-4**: Trouble-shooting	**PA 4 due**				
	F	10-20	*Hair* Load-In, Thurber			*Hair*		
	SU	10-22	*Hair* Load-In (cont.)			Thurber		
6	M	10-23	P.E. Project – designer's plot + shop order		**Shelley**		Daily	
	W	10-25	**PA-5**: Offline Editors / P.E. project		**PE Checklist**		Show	
7	M	10-30	Production Budgets: Design + Electrical needs Labor and Logistics					
	W	11-01	**PA-6**: Vendor Order for P.E. Project	**PA 5 due**				
8	M	11-06	Production Scheduling: Guest speaker					
			PA-7: Calendar for P.E. Project	**PA 6 due**				
	W	11-08	Electrician Demo in Thurber: *Hair*					
	R	11-09	Break-down *Hair* for Travel					
9	M	11-13	Assist with *Hair* Load-In, Southern			*Hair*		
	W	11-15	Assist / Observe *Hair*, Southern			Southern		
						Theatre		
10	M	11-20	Rigging: Hardware and techniques: C. Mahan		**Glerum**			
	W	11-22	*Hair* Strike, Southern					
11	M	11-27	**PA-8**: *Hair* lighting "talkback"	**PA 7 due**				
	W	11-29	Independent work on project portfolios					
	F	12-01	Project Portfolios are due	**PA 8 due**				

Lighting Production Technology: Practical Application Projects (PA)

A series of Practical Application projects are examined in the course. As a combination of group and solo projects, they are designed to give you an opportunity to fully examine and experiment with the various lighting topics explored in class readings and discussion.

In most cases, the Practical Application projects are due at the end of the class period in which they were assigned. For exceptions on longer and/or continued projects, check the course syllabus.

You are responsible for timely completion of the projects, and assembling written and visual documentation for each into a course portfolio. Some projects will be completed during the class meetings. Other projects will require additional research and will be presented at a later date.

Completed portfolios are due with submission of final project.

PA	Topic	Project Description / Learning Objectives
01	Power/electricity	Understanding basic wiring techniques used for theatrical productions, such as lamps, chandeliers, and other lighted sources found on a stage set. All wiring schemes are set out on paper first, assembled, and then fully tested with a multi-meter.
02	Bench Focus	Experimenting with various techniques in optimizing the stage lamp in relation to the lens and/or reflector. All types of lighting equipment are examined. Footcandle readings are taken and noted throughout the experimentation process.
03	Special Effects	Research a particular special effect of interest and/or application to the theatre lighting area. Develop a plan for construction and finishing details, as per the identified need. Complete the construction and present project results to the class.
04	Trouble-Shooting (group project)	Presented with a lighting and/or electrical problem, explore various methods and procedures for solving the problem. As a timed event, issues of pace, safety, and collaborative thinking apply to the evaluation.
05	Production Project: Offline Editing	Interpret the assigned lighting plot and shop order, preparing it for installation with regard to the typical responsibilities of the production electrician: assigning circuits, calculating power, cable, and data distribution, and configuring the lighting console according to the designer's specifications.
06	Production Project: Budgeting	Create a vendor order from the designer's lighting plot and shop order, including perishables, rentals, and other production-specific materials.
07	Production Project: Logistics	Create a production calendar to accomplish the lighting design for the production project. Establish a labor pool, work schedule, contingency calls, etc. from load-in through final production strike.
08	Response	Reflect on the *Hair* production project, produced by the Theatre Department during the quarter. Describe your contribution, and evaluate the overall effectiveness of the lighting production technology aspect.