

## **GRADUATE LIGHTING DESIGN I –TPA 5025**

### **Course Syllabus**

**Fall 2017**

**The University of Florida**

**College of the Arts**

**School of Theatre and Dance**

**Professor Stan Kaye**

**OFFICE HOURS as posted on my office door OR BY APPOINTMENT**

**Class Meets M W – 4-5 (10:40 – 12:35)**

**MESSAGES: DEPARTMENT OFFICE 273-0510 direct line (Has voice mail)**

**MY OFFICE IN McGuire 207 (My cell is 352-317-2855)**

**E-MAIL: [STANKAYE@arts.ufl.edu](mailto:STANKAYE@arts.ufl.edu) (CHECKED FREQUENTLY)**

**TEXTS:** Light Fantastic *The Art and Design of Stage Lighting* By Max Keller  
Prestel 2nd Edition – ISBN 978-3-7913-3685-5

*A Practical Guide to Stage Lighting*, 3<sup>rd</sup> Edition by Steve Shelly  
Elsevier – Focal Press – ISBN-13: **978-0415812009** | Edition: **3**

### **SUPPLIES NEEDED:**

Software Required: Vectorworks Spotlight student edition or (latest edition) –

Lighting Design Software: Student Version. WYSIWYG Student or Design or you may use the lab machines. Design Level Dongle will be provided for you.

This link will help you get the software and “dongle”. You need to get this software up and running immediately. <https://www.cast-soft.com/cast/academic/students.php>

**Required:** Computer system, Lap-Top or desktop capable of running WYSIWYG and Vectorworks. Software: Vectorworks Spotlight (student edition), Adobe PDF writer standard, Photoshop CS or creative cloud Microsoft office Suite.

**There will be unannounced quizzes on the readings.**

### **GRADING BREAKDOWN:**

PROJECT # 1- Light Plot Reconstruction = 30 %

PROJECT # 2 = Music Project = 30 % WYSIWYG

PROJECT # 3 Final Project- Diary of Anne Frank or title selected in class  
Complete Light Plot and accompanying paperwork and Fiber  
Optic Cueing sequence (5 stunning looks) = 40%

**The final project paperwork shall include:**

Full light plot ½ Scale—The plot shall be CAD drafted in Vectorworks Spotlight.  
Complete Center-line Section  
Complete Hook-up (Lightwright or Excell)  
Complete Instrument Schedule (Lightwright or Excel)  
Complete shop order (no cable included)  
Color Pallete  
Magic Sheet  
Concept Statement with Play Analysis (minimum 1000 word Play analysis)  
Concept Research or inspirational material  
Rough plots and/or sketches  
Complete Cue Score  
Visual Storyboard derived from model cueing with fiber optics (minimum 5 stunning images)

**All final project information shall be put together into a single electronic document and organized in a professional manner. See me to see a sample of these projects. I also expect all drawings, and documents to be included on a CD with all documents in PDF format.**

**NOTE:** READING ASSIGNMENTS SHOULD BE COMPLETED FOR THE WEEK IN, WHICH THEY ARE SCHEDULED.

**LIGHTING LABORATORY ACCESS:** The Lighting lab  
Will be accessible by signing out time in advance on the lab clip-board.

**INDUSTRY RESOURCES:**

Since you are planning a career in lighting design you should subscribe to at least one of the following periodicals and make them a permanent part of your library.

Live Design <http://livedesignonline.com/>

PLSN (Pro Lights and Staging News) <http://www.plsn.com/>

Light and Sound America <http://www.lightingandsoundamerica.com/>

Lighting Design and Application (LD&A)  
[http://www.ies.org/lda/members\\_contact.cfm](http://www.ies.org/lda/members_contact.cfm)

Architectural Lighting (AL) <http://www.archlighting.com/>

Stage Directions <http://www.stage-directions.com/>

LED Magazine Online <http://www.stage-directions.com/>

### **CONSIDER JOINING:**

**USITT** = United States Institute for Theatre Technology <http://www.usitt.org/>

**IALD** – International Association of Lighting Designers <http://www.iald.org/>

IALD – Education Trust – A great way to break into the Architectural lighting design field and they offer \$\$ and scholarship often --  
<http://www.iald.org/trust/index.asp>

**USA-829** – United Scenic Artists (At some appropriate point in your career) Examination and experience required.  
<https://www.usa829.org/Default.aspx>

**IESNA** – Illuminating Engineers Society of North America (at some point in your career) <http://www.iesna.org/>

**American Association of Museums** – If you are interested in museum and display lighting. <http://www.aam-us.org/>

**International Association of Amusements Parks and Attractions** – If you have any interest in working in this area of our field  
<http://www.iaapa.org/>

Please read:

See attached Weekly Schedule. We will try to stay on schedule but it is likely that we will digress into conversations that are beneficial and I will allow for that. Rest assured we will cover all of the material presented in this Syllabus. You are responsible for all reading in a timely fashion. Bringing your work in for review on the dates noted on the schedule are required. Failure to do so will result in a reduced grade no matter what the quality of the result is.

Carefully read the project sheets. The directions in them are quite specific. It is wise to read them often as you are going through the process of the project so will not stray off track.

The final project play is *The Diary of Anne Frank* or other play as determined in the class. See the final project sheet. We will discuss this in class.

**Students with Disabilities:**

Students requiring classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

**Counseling and Mental Health:**

Please be aware that there are people on-campus to assist you if you feel that the pressures of a semester are too great for you to handle. Call any of the services listed below for assistance:

Student Mental Health (24 hours on call)  
2<sup>nd</sup> Floor, Student Health Care Center  
392-1171

University Counseling Center  
P301 Peabody Hall  
392-157

Please refer to your student handbook for the University's honesty policy regarding cheating and the use of copyrighted materials.

**ATTENDANCE AT PERFORMANCES:** Since production is the laboratory for all theatre courses, attendance at all mainstage Department of Theatre and Dance productions is required of students enrolled in classes with the following prefix designations: THE, TPA, TPP, ORI. Critiques of and/or responses to these productions may be required.

**USE OF ELECTRONIC DEVICES:** The use of cell phones or other mobile devices is disruptive, and therefore is prohibited during class. Except in emergencies, those using such devices must leave the classroom for the remainder of the class period.

Students are not permitted to use computers during class without specific permission from the instructor, and in that case, students using the computer for work not related to the class must leave the classroom for the remainder of the class period. Classes may not be recorded without express permission from the instructor.

**ONLINE COURSE EVALUATIONS:** Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students <https://evaluations.ufl.edu/results/>

**Graduate Lighting Design I  
Project # 1  
Theatrical Lighting Drafting Drill**

**Project:** Drafting Quality Enhancement Drill

**Purpose:** The purpose of this project is to insure that your drafting quality is of the highest possible standard and will be respected by Union electrical crews in venues throughout the United States and beyond.

**Goals:** The overarching goal is to bring your drafting to the highest level and familiarize yourself with Broadway quality drafting expectations on a complex show.

**Method:** By reviewing the Broadway Plot for *Jersey Boys* or *other* we will pick certain plates for you to reproduce from scratch. Through this “copy” exercise you will discover various techniques to achieve proper line weight relationships, clarity of information, notation details, and the general ethic of high quality 2D representation of lighting design schematics as expected by the USA-829 and IATSE. (International Association of Theatrical Stage Employees)

**Project Execution:** You may execute this exercise on your own computer or on SOTD lab machines. I cannot guarantee the reliability of UF computers or your own. Only you are responsible for maintaining the integrity of your files and ability to complete the project on time and printed. Our printer can be temperamental so I suggest you be prepared to use the Architecture lab or PDF your drafting and bring to Kinkos for printing. You will notice on the schedule that there is a day to review and critique your drafting. Be sure to have printed plates for me to “red line” that day so your final version will benefit from my feedback.

**Pride in Work:** It is expected in this program that you will strive to produce the highest quality work you are capable of. In this environment where you have the luxury of time you will be motivated to sharpen your skills through practice and focused concentration. Much like mastering a musical instrument, I will serve as your guide to be a master of all the techniques both, technical and artistic to be considered a Master of your craft at the conclusion of your program.

**Grading:** I will base your grade on these factors:

- |               |               |          |
|---------------|---------------|----------|
| - Preparation | -commitment   | -quality |
| - Timeliness  | -creativity   |          |
| - Attitude    | -thoroughness |          |
| -             |               |          |
| -             |               |          |

**You are expected to deliver:**

Perfectly printed versions of the drafting plates we select in class. Printed in black and white and in proper scale. They should be folded as I have instructed you in class and should be of such a quality that you would be prepared to present them to the head electrician on a Local 1 IATSE crew in NYC.

Music Project  
TPA 5025 Graduate Lighting Design I  
Professor Stan Kaye  
Fall 2017

**Overview:**

The purpose of this project is to fine tune your ability to see light as a visual representation of time, mood, movement and dynamic composition. It will also familiarize you with the use of large amounts of automated lighting and the use of WYSIWYG software.

**Method:**

By choosing a musical composition with rich textures, repetitive motifs, and varied volumes you will design a lighting plot in WYSIWYG using any technology that you feel will express your visual ideas for the song. You may use any venue you wish. You will break the song down into its component parts that you determine require different looks or ideas.

**Final Goal**

On the due date we will set up a projector in the Computer Lab and you will take us on a guided explanation of all of the technical details of your design. Then you will run the event live with the music and the live control of the lighting. You will deliver the following paperwork as part of this project:

**Deliverables:**

High Quality lighting plan in 1/2" or 3/8" scale (created in WYG - tough I know)  
High Quality lighting section in 1/2" or 3/8" scale (created in WYG - tough I know)  
Complete channel hook-up (created in WYG - tough I know)  
Complete instrument schedule (created in WYG - tough I know)

**Details:**

Choose a piece of music that has varied motifs, rhythms, colors and emotional content. Music with a clear narrative or moods works best. You should break this music down into sections and create a cue score that reflects your responses to the music. Use google image search or other means to find images that fit your feelings for each cue in the cue score. Once that is established, move on to the layout of your lighting plot. Once the plot is completed begin the cueing process by working in WYG live mode. Be careful to keep all your files in multiple locations and protect them from corruption.

On your due date you will present all the paperwork and performance for evaluation.

**I will grade on:**

promptness                      good use of available resources  
growth  
technical mastery  
creativity

**Graduate Lighting Design I**  
**Final Project Description**  
**Cueing Design for *Diary of Anne Frank***

**Project:** Complete Lighting Design for a scenic model The Diary of Anne Frank  
All paperwork included below shall be presented neatly in a binder.

**You are expected to deliver:**

The following paperwork is to be included:

Full light plot ½ Scale—The plot shall be CAD drafted in  
Vectorworks Spotlight.

Complete Center-line Section

Complete Hook-up (Lightwright or Excel)

Complete Instrument Schedule (Lightwright or Excel)

Complete shop order (no cable included)

Color Palette

Magic Sheet

Concept Statement with Play Analysis

Concept Research or inspirational material

Rough plots or sketches

Complete Cue Score

Visual Storyboard derived from model cueing with fiber optics or video clips of the cues with a audio narrative explaining what we are seeing. This can be created in imovie or windows moviemaker.

**Purpose:** The purpose of this project is to build your skills in professional paperwork using Vectorworks and Lightwright. It is intended to exercise your ability for analysis of a script, work with a given scenic design, and imagine the action of the play and how you will enhance the dramatic experience with light.

**Goals:** The goal is to develop a complete lighting paperwork package that would be acceptable in a professional venue, and would be appropriate for our shop at UF. It is also a way for you to develop visuals ideas that are relevant and useful in presenting your lighting ideas to others on the creative team.

**Method:** You will learn how to use the unique Luxam fiber optic theatrical lighting system and connect the hybrid illuminators to a console to understand this unique and precise technology.

**Project Execution:** You will be provided access to my office and the equipment and model. If you wish to use an alternative console, and ARTNet interface can be provided.

**Pride in Work:** It is expected in this program that you will strive to produce the highest quality work you are capable of. In this environment where you have the luxury of time you will be motivated to sharpen your skills through practice and focused concentration. Much like mastering a musical instrument, I will serve as your guide to be a master of all the techniques both, technical and artistic to be considered a Master of your craft at the conclusion of your program.

**Grading:** I will base your grade on these factors:

- Preparation
  - Timeliness
  - Attitude
  -
- commitment
  - creativity
  - thoroughness
- quality

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# Graduate Lighting Design 1 TPA 5025

## Weekly Schedule Fall 2017

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Reading Prepared to Discuss</i>
Week 1	Monday, August 21, 2017	Introduction KELLER DVD and Designers DVD	Introduction to expectations-getting to know each other -Lighting Designers DVD Wilson, Brickman, NYCO Shelly Chapter 1
Week 1	Wednesday, August 23, 2017	Refresher Equipment and paperwork	<b>Keller The History of Light in the Theater, Light and Colour, Handling light and Colour (PP 15-58) , Keller DVD</b>
Week 2	Monday, August 28, 2017	Refresher Equipment and paperwork optics, lamps and	<b>Shelly 2, and 3</b>
Week 2	Wednesday, August 30, 2017	Preparing for the project - Overview of drafting re-creation project, Contracts..	<b>Shelly 4, Keller Optics, Lamps and Light- (pp 67-94)</b>
Week 3	Wednesday, September 06, 2017	Lay in Shelly plot in VW - <b>2 hours only</b> . See how far you get, in my office, TShelly page XVI and XVII	<b>YOU WILL DRAFT IN CLASS</b>
Week 3	Monday, September 11, 2017	Continue Shelly discussions Plots, paperwork, load ins, focus, cue construction, Vectorworks check-up ? How good and how fast are you ?	<b>Shelly 5,6 Bring your laptop tops with VW spotlight working.</b>
Week 4	Wednesday, September 13, 2017	Review in class drafting results. Discuss systems, Load in and Focus Live focus session. Black Box.	<b>Shelly 7, 8,12 Live focus in Black Box</b>
Week 4	Monday, September 18, 2017	WYSIWYG overview	<b>Keller - Light and Lighting Design, Conceptual lighting design (pp173-188)</b>
Week 5	Wednesday, September 20, 2017	Listen to music, discuss design approach- WYSIWYG continued	<b>REVIEW and CRITIQUE DRAFTING PROJECT MUSIC FOR PROJECT DUE !</b>
Week 5	Monday, September 25, 2017	WYSIWYG scenery, positions, views, focus	<b>Shelly 9 (focus and level setting) Whole Hog introduction</b>
Week 6	Wednesday, September 27, 2017	WYSIWYG - movers, patching, design, perform level	<b>More Hog/Programming</b>
Week 6	Monday, October 02, 2017	Discuss Keller- Whole Hog demos	<b>Keller Lighting Consoles (pp 147-168) Shelly 13</b>
Week 7	Wednesday, October 04, 2017	WYSIWYG Lab Day	<b>Studio Day- Bring computers or work on lab machines</b>
Week 7	Monday, October 09, 2017	WYSIWYG Lab Day	<b>Introduction to the Fiber Optic Lab system</b>
Week 8	Wednesday, October 11, 2017	fiber optic lab set-up	

Week 8	Monday, October 16, 2017	Work Music Project	
Week 9	Wednesday, October 18, 2017	Work Music Project	
Week 9	Monday, October 23, 2017	Present Music WYG music Project	<b>View/Critique (2) Music projects</b>
Week 10	Wednesday, October 25, 2017	Doing the light in the theatre how to work in the technical process	<b>View/Critique (2) Music projects</b>
Week 10	Monday, October 30, 2017	Fiber optic training	Model Set-ups
Week 11	Wednesday, November 01, 2017	Fiber optic training	Control of Fiber optics for cueing
Week 11	Monday, November 06, 2017	Discuss Diary of Anne Frank-or other model analyze models	Homecoming
Week 12	Wednesday, November 08, 2017	Review Cue Scores and Fiber Optic Plots	<i>Fiber lab work day</i>
Week 12	Monday, November 13, 2017	Presentation day	Fiiber Project Presented (1)
Week 13	Wednesday, November 15, 2017	LDI Las Vegas	
Week 13	Monday, November 20, 2017	Presentation day	Fiiber Project Presented (1)
Week 14	Wednesday, November 22, 2017	Presentation day	Fiiber Project Presented (1)
	11/22/2017 - 11/26/2017	Thanksgiving Break	No Classes
Week 14	Monday, December 04, 2017		Final Project Presented (1)
Week 15	Wednesday, December 06, 2017	Last Day of Class	
Week 15	Monday, December 08, 2014		Final Project Presented (1)
Week 16	Wednesday, December 10, 2014	Last Day- Wrap up Evaluation	
	<b>DUE DATES</b>		
	<b>Drafting Project Plots DUE SEPT 20th</b>		
	<b>Music Projects DUE OCT 23 and 25</b>		
	<b>Final Model Presentations November 12,17,19</b>		
	<b>Final Play 1st review Dec 3,8</b>		
	<b>Final Play due Dec 19 at the latest</b>		