

TPA 2210 Technical skills in Stage Technology (3 credits)

WF 11:00-12:20 PM PA 103

Professor: Thomas Shorrock

Spring 2019

shorrock@fau.edu

Prerequisite: TPA 2200 Intro to Production

Office: PA 113C, Hours: T12:30-2:30; W12:30-2:00

phone: 561-297-3810

Class Description:

The study of a special area in theatre. Topics will vary. May be repeated for credit.

Class Details:

This course is an introduction to the three common welding process used in theatrical welding (SAW, GMAW, SMAW) and how to work in each process. Thorough the course you will develop skills that will prepare you for working in theatre construction or taking a certification exam.

Class Grading Scale: (There is no curve in this class)

A 1000-900 B 899-800 C 799-710 D 709-650 F 649-0

Text Books:

The following book is required for class. This book was selected based on a thorough weighing of cost and quality. It is a great value. You may note that there are fewer bells and whistles than many other (costly) textbooks, but given the price differences you can buy many actual bells and whistles. My calculations suggest you could buy at least nine cowbells from the savings. And, as we all know, you can never have too much cowbell.

Welder's Handbook, 2nd Ed. Finch : ISBN-13: 978-1557885135 Amazon.com (Used)

In addition you will need to purchase and use the following ppe:

- Safety glasses: Required: ANSI Z87.1+
- Safety Clothes: Long sleeved shirt, Jeans
- Optional: Hearing protection. Minimum 20dB reduction
- Closed toe shoes, Minimum requirement is leather construction

Your grade in this class will be based upon the following criteria:

Lab Projects: (400 Points):

There are four lab projects spaced throughout the semester. Each project will focus on a particular welding process at the time.

Self-Assessment (400 Points):

There are nine self-assessments that are spaced throughout the semester to test your understanding and knowledge of each welding process.

Final Project (200 Points):

You will build a project that consists of 80% steel that the department needs within production use, or build a project using your own materials and scraps from around the shop. You will at least three processes that we cover in the course to construct the project. You are responsible for drafting up plans, creating the materials list and construction of the project during shop hours. More details will come, but feel free to chat with Chris, Jessica, or myself about ideas early.

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A special note:

Theatre, by its nature, is a collaborative environment and we often seek out advice and help from others in our daily lives as we work. I highly encourage you to work with your peers, faculty, and staff as you study and create your projects for this class. I do ask, however, that when it becomes time to submit materials for testing or evaluation, that the work submitted is completed by you and you uphold the Code of Academic Integrity of FAU.

This class will involve working with materials and equipment that can cause permanent, irreparable harm to you or others instantly. These dangers include, but are not limited to: 1st to 3rd degree heat burns, 1st to 3rd degree electrical burns, 1st to 3rd degree ultraviolet burns, eye injury, loss of sight, suffocation, exposure to suspect/known carcinogens, and disfigurement, disablement, or death. Failure to follow safety rules and best practices as established by the instructor or staff of the shop may result in dismissal from the day or the class at any point with an F.

I can place a lot of scary text here explaining cheating and the repercussions of what happens when you cheat. Instead, I would like to just say this: You are paying your money, time, and effort into taking this class. You are taking this class because it relates heavily to what you want to do for the rest of your life. Don't short change yourself by taking the easy way to complete the material. I have never met anyone who said they wish they cheated more while in college. Don't sell yourself and your experiences for the easy grade.

All tests are conducted on the Blackboard system online. You must be the individual taking the exam. Notes, study guides, books, or any other resource other than yourself is not allowed during the exam.

Attendance policy:

The Department of Theatre attendance policy is: Three absences will lower your final grade by one letter grade. Each subsequent absence will lower your final grade by one letter grade. Five absences will result in automatic failure. Three tardies equals one absence. If you arrive to class after roll is taken, it is your responsibility to check in at the end of class to make sure your attendance is recorded. See University policies in the FAU Student Handbook <http://www.fau.edu/handbook/>

Students will not be penalized for absences due to participation in University-approved activities, but proof of involvement must be provided. Reasonable accommodation will be made for student absences due to religious observance(s). Also, note that grades of Incomplete ("I") are reserved only for students who are passing the course but have not completed all the required work because of exceptional circumstances. Incompletes should be pre-arranged with the instructor before the end of the term.

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/

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Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see University Regulation 4.001. If your college has particular policies relating to cheating and plagiarism, state so here or provide a link to the full policy—but be sure the college policy does not conflict with the University Regulation

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As always, this is subject to modification and change as I see fit based on academic and student progress.

Day	Topic	Assignment	Due
W 1/11	Discuss Syllabus and Semester overview		
F 1/13	Safety Practices	Self Assessment #1	
W 1/18	Physical and mechanical properties of metals		
F 1/20	Steels	Self-Assessment #2	Self-Assessment #1 due
	<i>Tech RDTE 1/23-1/26</i>		
W 1/25	Shapes and cutting metal		
F 1/27	Lab: Cutting metal		Self-Assessment #2 due
W 2/1	OAW Safety		
F 2/3	OAW Theory	Self-Assessment #3	
W 2/8	Lab: Gas Process Brazing		Self-Assessment #3 due
F 2/10	Lab: Process Cutting		
	<i>Tech Show #31 2/13-16</i>		
W 2/15	Lab: Heat treating/Cast Iron	Self-Assessment #4 Project #1	
F 2/17	Electrical Principles in Welding		
W 2/22	GMAW Process Safety	Self-Assessment #5	Self-Assessment #4 due
F 2/24	GMAW Theory		
W 3/1	Lab: GMAW Lightweight Welding		Self-Assessment #5 due Project #1 Due
F 3/3	Lab: GMAW Heavyweight Welding	Self-Assessment #6 Project #2	
W 3/8	<i>No Classes; Spring Break</i>		
F 3/10	<i>No Classes; Spring Break</i>		
W 3/15	SMAW Process Safety	Self-Assessment #7	Self-Assessment #6 due
F 3/17	SMAW Theory		Project #2 Due
W 3/22	Lab: SMAW Striking an Arc		Self-Assessment #7 Due
F 3/24	Lab (Continues): SMAW Striking an Arc		
W 3/29	Lab: SMAW Lightweight Welding		
F 3/31	Lab: SMAW Heavyweight Welding	Self-Assessment #8 Project #3	
W 4/5	Partial Lab: Plasma Torch theory		
F 4/7	Lab (Continues): Plasma Torch		
	<i>Tech Show #4 4/10-13</i>		
W 4/12	Reading Welding plans	Project #4	Self-Assessment #8 due
F 4/14	Final Project Handout and discussion	Self-Assessment #9	Project #3 due
W 4/19	Catch-up Day		
F 4/21	Final Project approval and signup. Last day		Self-Assessment #9 due Project #4 Due
W 5/3	Final Exam Presentations 10:30-1:00		