

THE 6930 Scenery Automation
Professor: Thomas Shorrock
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Class Description:

Course focuses on drafting techniques, particularly on concepts and methods used in scenery automation

Class Details (Objectives):

Students in theatre design and technology communicate to directors, designers and construction crews through draftings, drawings and renderings. These drawings convey ideas and designs in a visual format that is both highly accurate and easily understood by every member of a production and are the standard for the entertainment industry. Drafting for theatre, whether by hand or computer, is a language that employs the use of an alphabet of lines, symbols and dimensions that have been developed over time and standardized by the United States Institute of Theatre Technology. This course will develop your proficiency in this language and develop your skills to communicate pictorially.

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

600-501 = A 500-400 = B 399-375 = C+ 374-335 = C 334-300 = C- 299-200 = D 199-0 = F

A Note about Grades: By definition, most of us are average. Average performance in this class—that is, the level of performance that most of you will achieve—will be rewarded with a grade of C. This is a good grade! Simply showing up for class every day and turning in all assignments on time is expected. Merely meeting expectations in this class will earn a grade of C. To earn greater than a C your work will have to be exceptional in quality, quantity and enthusiasm for the subject. Grades are for you to measure your own level of achievement against that of your peers; they have no meaning outside of the academic environment.

Text Books and course material:

Required:

Scenic Automation Handbook by Gareth Conner
Mechanical Design for the Stage by Alan Hendrickson

Projects: 400 Points

You will complete several projects worth a variety of points that are due as listed on the class schedule on page three. Your grade for each project will be penalized by 50% for each day it is late (Calendar day, not class day). Because most of the work will be accomplished on computers, there is no reason to be late in emailing the assignment to me by 5 PM on the day the assignment is due. (Please see the top of the page for my email address.) You have one “get of jail free” card, which forgives one assignment being late. You can choose which assignment to use this card for, but once your decision is made you cannot change! Choose wisely.

Final Exam Project: 200 Points

Your final exam project is due on the final exam day by end of the day, 5 PM. This project is worth 2/5 of your grade and provides a substantial portfolio piece to use in preparing for your job search after school. Please pay close attention to detail and the guidelines we discuss in class, so your project is complete and accurate.

Attendance policy:

Attendance: Role will be taken at the beginning of class each time the group meets. If you are late, you must meet with the instructor immediately after class in order to be counted present. More than three absences will result in the lowering of the final grade.

Counseling and Psychological Services (CAPS) Center

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/>

Disability Policy

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/

Code of Academic Integrity

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.

THIS SCHEDULE IS SUBJECT TO SIGNIFICANT CHANGES AS THE SEMESTER PROGRESSES!

DAY	CLASS	ASSIGNMENT	Projects
Week 1			
Wed 1/13	Introduction	Textbook Orders	
Fri 1/15		Read MDS CH 1	
Week 2			
Wed 1/20	Introduction; Ch 1: Concepts and definitions	Read MDS CH 2, 3	
Fri 1/22	Constant Acceleration; Force to Acceleration Mass	Read MDS CH 4, 5	
Week 3			
Wed 1/27	Friction Force, Lifting Force	Read MDS CH 6,7	
Fri 1/29	Maximum power; Rotational Motion	Read MDS Ch 8,9	
Week 4			
Wed 2/3	Torque to Accelerate mass Torque to overcome friction	Read MDS Ch 10,11,12	
Fri 2/5			Model Boxes
Week 5			
Wed 2/10			Build Models
Fri 2/12			Create Sample Switch Wire sets
Week 6			
Wed 2/17			Create Sample Light sets
Fri 2/19		Read SAH 1,2,3	
Week 7			
Wed 2/24	Moving stuff onstage	Read SAH 4,5	
Fri 2/26	Motivating and moving	Read SAH 6,7	Wire and connect motors
Week 8			
Wed 3/3	Sensing motion and control	Read SAH 8	
Fri 3/5	Programmable Logic Controllers	Read SAH 9	Build Ladder logic diagram for model
Week 9			
Wed 3/10	PID Loops	Read SAH 10,11	
Fri 3/12	Safety and Interfaces	Read SAH 12,13,14	
Week 10			
Wed 3/17	Networks Integration, Implementation	MDS 14	Connect to Stagehand
Fri 3/19	Actuators	MDS 15	
Week 11			
Wed 3/24	Speed Reducers	MDS 16, 17	
Fri 3/26	Shafting, Bearings, Wheels	MDS 18, 19	
Week 12			
Wed 3/31	Wire Rope, Sheaves, Cable Drums	MDS 20, 21	
Fri 4/2	Screws and Brakes	MDS 24, 25	
Week 13			

Wed 4/7	Mechanical Design and Specification	MDS 26, 27	Paper Project Turntable
Fri 4/9	Concept and Detail Design	MDS 29-33	
Week 14			
Wed 4/14	Stage Machinery	Final Exam Assignment	Broadway show project
Fri 4/16	Final Exam Prelim review		
Week 15			
Wed 5/6 7:45-10:15 AM	Final Exam Due		