Term Information

Effective	Term
Previous	Value

Autumn 2020 Autumn 2013

Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)

Course number, title, description, course goals, credit hours.

What is the rationale for the proposed change(s)?

The expansion of the course from 1.5 credit hours to 3 allows for deeper exploration of modern technologies utilized in theatre and entertainment events. The

change to course number and title better reflect the content of the course and its place in our curriculum.

What are the programmatic implications of the proposed change(s)?

(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?

Updates are reflected in our recent proposal to revise the MFA curriculum, submitted for approval December 2019.

Is approval of the requrest contingent upon the approval of other course or curricular program request? Yes

Please identify the pending request and explain its relationship to the proposed changes(s) for this course (e.g. cross listed courses, new or revised program)

The revision to the Master of Fine Arts program, which incorporates the revised course into program requirements, was also submitted for approval in December 2019.

Is this a request to withdraw the course? No

General Information

Offering Information

Flexibly Scheduled Course

Length Of Course

Previous Value

Course Bulletin Listing/Subject Area	Theatre
Fiscal Unit/Academic Org	Theatre - D0280
College/Academic Group	Arts and Sciences
Level/Career	Graduate, Undergraduate
Course Number/Catalog	5401
Previous Value	5231
Course Title	Engineering for Entertainment
Previous Value	Topics in Technical Theatre
Transcript Abbreviation	Engr Entertainment
Previous Value	Theatre Technology
Course Description	An introduction to the technology and engineering behind theatre and entertainment events; focus on motion technology including rigging, tracking and automated systems.
Previous Value	Exploration of theatre technology topics including: technical direction, theatrical rigging, stage automation systems, and metals as a scenic element.
Semester Credit Hours/Units	Fixed: 3
Previous Value	Fixed: 1.5

14 Week, 12 Week 8 Week, 7 Week, 6 Week Never

Does any section of this course have a distance education component?	No
Grading Basis	Letter Grade
Repeatable	Yes
Allow Multiple Enrollments in Term	Yes
Max Credit Hours/Units Allowed	9
Max Completions Allowed	6
Course Components	Laboratory
Grade Roster Component	Laboratory
Credit Available by Exam	No
Admission Condition Course	No
Off Campus	Never
Campus of Offering	Columbus

Prerequisites and Exclusions

Prerequisites/Corequisites	
Exclusions	
Electronically Enforced	

No

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code	50.0501
Subsidy Level	Doctoral Course
Previous Value	Masters Course
Intended Rank	Senior, Masters, Doctoral
Previous Value	Senior, Masters

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors The course is an elective (for this or other units) or is a service course for other units

Previous Value

The course is an elective (for this or other units) or is a service course for other units

Course Details

Course goals or learning objectives/outcomes

- Learn how to make things move onstage.
- Develop an understanding of the fundamentals behind theatrical rigging systems, fluid power, pneumatics, tracked wagons, motorized winch design, stage lifts, turntables and motion control systems.

Previous Value

Previous Value	Νο
Sought Concurrence	Yes
	• Welding
	Automation
	 Rigging
Previous Value	Technical direction
	Theatre Technology
	Motion Control Systems
	• Lifts
	• Winches
	• Tracking
	• Pneumatics
	Hydraulics
	• Fluid Power
	Automation

Attachments

Content Topic List

• THEATRE5401ConcEngineering.pdf: Theatre 5401 Concurrence Request

(Concurrence. Owner: Kelly,Logan Paige)

• Theatre 5401 Syllabus.docx: Theatre 5410 Syllabus

(Syllabus. Owner: Kelly,Logan Paige)

Technical direction

Rigging

Comments

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Kelly,Logan Paige	12/03/2019 04:09 PM	Submitted for Approval
Approved	Kelly,Logan Paige	12/03/2019 04:20 PM	Unit Approval
Approved	Heysel,Garett Robert	01/08/2020 10:04 AM	College Approval
Pending Approval	Jenkins,Mary Ellen Bigler Hanlin,Deborah Kay Oldroyd,Shelby Quinn Vankeerbergen,Bernadet te Chantal	01/08/2020 10:04 AM	ASCCAO Approval



TERM:	Spring XXXX
CREDITS:	3
LEVEL:	U/G
CLASS TIME:	Tues & Thurs, 11:10am – 12:30pm
LOCATION:	Drake 2038

INSTRUCTOR:Chris Zinkon / Chad MahanOFFICE:Drake 083OFFICE EMAIL:Zinkon.3 / Mahan.33OFFICE PHONE:(614) 247-8960OFFICE HOURS:By Appointment

LEARNING OBJECTIVES: Learn how to make things move onstage. Develop an understanding of the fundamentals behind theatrical rigging systems, fluid power, tracked wagons, motorized winch design, stage lifts, turntables and motion control systems.

TEACHING METHOD: Lecture, demonstration, class discussion, project work.

REQUIRED TEXTS: None

RECOMMENDED TEXTS:

Scenic Automation Handbook, Gareth Conner, Focal Press, 2018. Stage Rigging Handbook – 3rd Edition, Jay O. Glerum, Southern Illinois University Press, 2007 Mechanical Design for the Stage, Alan Hendrickson, Focal Press, 2008. Backstage Handbook, 3rd Ed., Paul Carter, Broadway Press, 1994.

ASSIGNMENTS: All assignments will have specific due dates, as noted in the weekly syllabus. Late work is generally not accepted, unless you obtain advance permission of the instructor or justified by a doctor's note.

GRADING: Projects will be judged on completeness, clarity of presentation, accuracy, appearance & creativity. OSU Standard Grading Scheme: 93 - 100 (A), 90 - 92.9 (A-), 87 – 89.9 (B+), 83 – 86.9 (B), 80 – 82.9 (B-), 77 – 79.9 (C+), 73 – 76.9 (C), 70 – 72.9 (C-), 67 – 69.9 (D+), 60 – 66.9 (D), Below 60 (E).

Attendance/Participation	10%
EOJ Tracking Scaffold Project	15%
Tracked Wagon Assignment	5%
EOJ Floating Screen Project	15%
Horsepower & Torque Assignment	5%
EOJ Fluid Power Project	15%
Fluid Power Assignment	5%
Rigging Project	15%
Motion Control Project	<u>15%</u>
Total	100%

ATTENDANCE: You are expected to be present, punctual and an active participant in every class session. Attendance and punctuality are mandatory. Repeated absences and/or tardiness will affect your final grade. One warning will be given prior to this rule going into effect. **ACADEMIC MISCONDUCT:** It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct http://studentlife.osu.edu/csc/.

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

COURSE SCHEDULE

University calendar: http://registrar.osu.edu/staff/bigcalsem.asp

Week 1: 1/9 – T 1/11 - R	Course Overview, Syllabus Discussion, EOJ Automation Winch Design	Challenges, Knots
Week 2:	Life on the Boad Touring Technicians - Quest Lecture	
1-18 - R	Tracked Scenery	
Week 3:		
1/23 - T	EOJ – Scaffold Wagon Winch Modification	
1/25 - R	EOJ – Scaffold Wagon Install	EOJ Tracking Scaffold Project
Week 4:		
1/30 - T	EOJ – Floating Screen & Track Install	Tracked Wagon Assignment Due
2/1 - R	EOJ – Floating Screen & Track Install	EOJ Floating Screen Project
Week 5:		
2/6 - T	Hoists & Truss	
2/8 - R	Machine Shop Tools & Power Transmission Hardware	
Week 6:		
2/13 - T	Horsepower & Torque	
2/15 - R	Fluid Power	HP & Torque Assignment Due
Week 7:		
2/20 - T	Fluid Power Lab	
2/22 - R	EOJ – Witness Stand Install	EOJ Witness Stand Project
Week 8:		
2/27 - T	Hemp Rigging	Fluid Power Assignment Due
3/1 – R	EOJ – Curtain Tab Install	

Week 9:			
3/6 - T	EOJ – Motor Ax	kis Tuning – Spikemark Programming	
3/8 - R	EOJ – Project ca	atchup day	
SPRING BREAK * March	n 12 – 16 * No Cl	asses – USITT Fort Lauderdale	
Week 10:			
3/20 - T	Counterweight	Rigging Systems	
3/22 - R	Motorized Rigg	ing Systems	
Week 11:			
3/27 - Т	Wire Rope & Ri	igging Hardware	
3/29 - R	Rig a Flat		
Week 12:			
4/3 - T	Mechanical Adv	vantage, Block & Tackle	
4/5 - R	Fun with Ropes	5	
Week 13:			
4/10 - T	Stage Lifts		Rigging Project Due
4/12 - R	Stage Revolves		
Week 14:			
4/17 - T	Motion Contro	l Systems	
4/19 - R	Motion Contro	l Lab	
Finals Week:			
4/30 - M	Final Exam	10:00am – 11:45am	Motion Control Project Due

Subject: Re: Concurrence for the Department of Theatre
From: "Lilly, Blaine" <lilly.2@osu.edu>
Date: 4/23/2019, 10:09 AM
To: "Steinmetz, Brad" <steinmetz.25@osu.edu>
CC: "Corlew, Anna H." <corlew.3@osu.edu>, "Subramaniam, Vishwanath" <subramaniam.1@osu.edu>, "Tomasko, David"
<tomasko.1@osu.edu>, "Quinzon-Bonello, Rosario" <quinzon-bonello.1@osu.edu>

Professor Steinmetz,

Thanks for reaching out to us. Since you intend to use "engineering" in the title of your course, I'm forwarding your request along to our curricular Associate Dean, David Tomasko, for his input. He can speak for the entire college, which we cannot do.

Thanks,

Blaine Lilly Associate Chair, UG Programs Mechanical and Aerospace Engineering

From: Anna Corlew <corlew.3@osu.edu> Date: Tuesday, April 23, 2019 at 10:06 AM To: "Lilly, Blaine" <lilly.2@osu.edu> Subject: FW: Concurrence for the Department of Theatre

From: Steinmetz, Brad <<u>steinmetz.25@osu.edu</u>>
Sent: Monday, April 22, 2019 3:42 PM
To: Subramaniam, Vishwanath <<u>subramaniam.1@osu.edu</u>>
Cc: Breckenridge, Nick <<u>breckenridge.17@osu.edu</u>>; Corlew, Anna H. <<u>corlew.3@osu.edu</u>>
Subject: Concurrence for the Department of Theatre

Professor Subramaniam,

The Department of Theatre currently trains our students in the technology and engineering involved in stagecraft and theatre design. We are adapting one of our topics courses (THEA 5231 - Topics in Theatre Technology) into a stand-alone course entitled Engineering for Entertainment. This course focuses on motion technology including theatrical rigging systems, fluid power, pneumatics, tracked wagons, motorized winch design, stage lifts, turntables and motion control systems, with a focus on their use in live events, theatre and themed entertainment. Because the engineering involved may be similar to courses provided in your department, we are asking for your concurrence.

Attached, please find a copy of the syllabus and a concurrence form. Please let me know if you have any questions or concerns. We will look for a response from your department by May 6th.

All the best, -Brad Steinmetz

Brad Steinmetz, MFA Associate Professor | Director of Undergraduate Studies The Ohio State University College of Arts and Sciences Department of Theatre Drake Performance and Event Center, 1849 Cannon Drive, Columbus OH 43210 614-292-5821 Office steinmetz.25@osu.edu | bradsteinmetz.com