

## **EED 220 Design for Live Entertainment**

Mon/Wed 2:30-5:15

Instructor:

Office: Phone: Office Hours:

**Course Objective:** Students will work throughout the semester to develop the skill set required to design and manage “entertainment” related projects with a focus on automated equipment.

The class will focus initially on the mechanical components of automation used for live entertainment and will deconstruct devices commonly used to create special theatrical effects. By semester’s end, the students will have a better understanding how to design safe apparatus for live entertainment using computer modeling software, how to develop a project budget and how to make reasonable forecasts of production times.

Concurrent lessons will delve into the control aspects of entertainment automation. The class will learn industry standards for automation control and will be introduced to a sampling of control software specifically designed for the entertainment industry.

**Course Goals:** Students will work on a group projects during the semester. The students will design, plan, and program a challenging entertainment related special effect.

- ◆ Using Autodesk Inventor software, the students will generate in detail project models, drawings, parts diagrams, bill of materials, component list, etc., etc, et al. for the class project.
- ◆ Students will use excel or other similar program to generate production schedule, budgets, and other documents.
- ◆ Each student will maintain a personal journal detailing and documenting all work in and out of class.
- ◆ The students will completely document the design/building process and prepare a document suitable for publication by the USITT Tech Expo. Additionally the class will produce a poster that documents the project as per the guidelines of the USITT Tech Expo guidelines.

### **Learning Outcomes:**

- The student will be able to identify the components of an entertainment automation system.
- The student will be able to design and assemble a basic entertainment automation system.
- The student will be able to program simple commands on a basic entertainment automation system.
- The student will be able to identify automation feedback system components.

- The student will be able to reverse engineer turnkey automation systems.
- The student will be able to identify design considerations for an entertainment automation system.

The class will consist of approximately 2-3 hours per week in the classroom, where students will design elements, research potential solutions, meet with other students and the instructor to discuss aspects of the projects. It is expected that an additional 2-3 hours per week will be spent in lab working on the semester projects.

Each student is expected to maintain a project journal. The journal is to contain notes, drawings, and general thoughts on the design and progress of every aspect of the project. The notebook should be viewed by the students as an aid in the design process. The project notebook (or journal) is subject to periodic review by the instructor. Keep it current!

Cell phones are to be turned off and remain off for the duration of the class period. No food or drink other than water in sealed containers allowed in the classroom.

\*\*\*Instruction will be given for the safe and proper operation automated devices. The students are expected to learn and practice safe operating procedures when using automated equipment. NOBODY will be allowed to use the equipment without having been instructed and tested on the safe operating procedures. Students will be allowed access to the classroom and lab equipment during class and at such times when the studio is staffed and open for general use.\*\*\*

Class will begin on time and students are expected to be in the classroom, prepared to begin at the designated time.

#### Grading Policy

Assignment/Activity	Points	Percent of Final Grade
Project *	400	40%
Independent Journal	100	10%
Final Report	200	20%
Peer evaluation (2 times)	100	10%
Project poster	100	10%
Class Participation	100	10%
Totals	1000	100%

#### \* Breakdown of the Project (400 pts)

Assignment/Activity	Points
1. Design Research	50
2. Budget, Labor and Materials Documents	100
3. Midterm Presentation	100

4. Pilot Testing/Programming	50
5. Final Exam Presentation (FX Demonstration)`	200
Total	400

Letter grades will be assigned based on the percentage of total points earned for the course.

- Plus and minus grades will be given in this class according to the following scale:

97-100%	A
94-96%	A
90-93%	A-
87-89%	B+
84-86%	B
80-83%	B-
77-79%	C+
74-76%	C
70-73%	C-
67-69%	D+
64-66%	D
60-63%	D-
59% and below	F

### **Library Resources**

Students may consult with a librarian on research needs. For this class, the subject librarian is Sue Wainscott. ([https://www.library.unlv.edu/contact/librarians\\_by\\_subject](https://www.library.unlv.edu/contact/librarians_by_subject)).

UNLV Libraries provides resources to support students' access to information.

Discovery, access, and use of information are vital skills for academic work and for successful post-college life. Access library resources and ask questions at <https://www.library.unlv.edu>.

## UNLV Policies:

**Academic Misconduct**—Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution.

An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the *Student Academic Misconduct Policy* (approved December 9, 2005) located at: <https://www.unlv.edu/studentconduct/student-conduct>.

**Copyright**—The University requires all members of the University Community to familiarize themselves **with** and to follow copyright and fair use requirements. **You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws.** Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: <http://www.unlv.edu/provost/copyright>.

**Disability Resource Center (DRC)**—The UNLV Disability Resource Center (SSC-A 143, <http://drc.unlv.edu/>, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you. If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to the instructor during office hours so that you may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach the instructor in front of others to discuss your accommodation needs.

**Religious Holidays Policy**—Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the course for fall and spring courses (excepting modular courses), or within the first 7 calendar days of the course for summer and modular courses, of his or her intention to participate in religious holidays which do not fall on state holidays or periods of class recess. For additional information, please visit: <http://catalog.unlv.edu/content.php?catoid=6&navoid=531>.

**Transparency in Learning and Teaching**—The University encourages application of the transparency method of constructing assignments for student success. Please see these two links

for further information:

<https://www.unlv.edu/provost/teachingandlearning>

<https://www.unlv.edu/provost/transparency>

**Incomplete Grades**—The grade of I—Incomplete—can be granted when a student has satisfactorily completed three-fourths of course work for that semester/session but for reason(s) beyond the student’s control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. The incomplete work must be made up before the end of the following regular semester for undergraduate courses. Graduate students receiving “I” grades in 500-, 600-, or 700-level courses have up to one calendar year to complete the work, at the discretion of the instructor. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an Incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

**Tutoring and Coaching**—The Academic Success Center (ASC) provides tutoring, academic success coaching and other academic assistance for all UNLV undergraduate students. For information regarding tutoring subjects, tutoring times, and other ASC programs and services, visit <http://www.unlv.edu/asc> or call [702-895-3177](tel:702-895-3177). The ASC building is located across from the Student Services Complex (SSC). Academic success coaching is located on the second floor of the SSC (ASC Coaching Spot). Drop-in tutoring is located on the second floor of the Lied Library and College of Engineering TEB second floor.

**UNLV Writing Center**—One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student’s Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: <http://writingcenter.unlv.edu/>.

**Rebelmail**—By policy, faculty and staff should e-mail students’ Rebelmail accounts only. Rebelmail is UNLV’s official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students’ e-mail prefixes are listed on class rosters. The suffix is always [@unlv.nevada.edu](mailto:@unlv.nevada.edu). **Emailing within WebCampus is acceptable.**

**Final Examinations**—The University requires that final exams given at the end of a course occur at the time and on the day specified in the final exam schedule. See the schedule at: <http://www.unlv.edu/registrar/calendars>.