

MAJOR TO CAREER GUIDE

Entertainment Engineering & Design – Engineering Option

Howard R. Hughes College of Engineering & College of Fine Arts

Mission of the College of Engineering

The mission of the Howard R. Hughes College of Engineering is to educate the future leaders, innovators, and entrepreneurs while discovering, integrating, and applying new engineering and computer science knowledge in service to society.

The overarching goals of the College of Engineering are to:

- Enable students to achieve excellence in engineering, informatics, computer science, and construction management.
- Promote the discovery, integration, dissemination and employment of new engineering, informatics, computer science, and construction management knowledge in service to society;
- Enable economic growth while increasing the quality of life and maintaining the ecosystem. Our core strategy for undergraduate learning in engineering, computer science, informatics and construction management embraces four distinct objectives:
 - Graduates will be technically competent in core areas within their discipline and related mathematics and sciences.
 - Graduates will be able to work within a team and communicate effectively through oral, graphical, and written modalities.
 - Graduates will be able to synthesize diverse information to develop creative design solutions.
 - Graduates will be able to function effectively in an evolving profession.

Visit this site for more information:

<http://www.unlv.edu/engineering/mission>

About Entertainment Engineering & Design

Entertainment Engineering is an engineering and technology discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and civil engineering and construction management to the art of entertainment.

The engineering option spans the disciplines of structural engineering, computer science with an emphasis in graphics & internet programming, computer automated control, robotics and acoustics. Students in this degree will be educated in the appropriate fine arts and technology related fields in order to work on the design, production, installation and operation of entertainment devices, audio systems and venues. Students will be able to use technology to communicate through art while having the ability to apply a knowledge of mathematics, science, engineering and computer science to the evolving entertainment industry.

Entertainment Engineering & Design Engineering Track Career Options

- Automation & automatic controls engineer
- Computer graphics & internet programming
- Entertainment venue & structures design
- Entertainment machinery design & manufacturing
- Robotics design & manufacturing
- Venue audio engineering

Graduate Programs

At this time there are no graduate programs associated with this degree

<http://www.eed.egr.unlv.edu/>

Student & Professional Associations

Students are encourage to get involved with these organizations early on by joining the student chapters at UNLV.

American Society of Mechanical Engineers (ASME)

www.asme.org

American Society of Civil Engineers (ASCE)

www.asce.org

National Society of Professional Engineers (NSPE):

www.nspe.org/

Tau Beta Pi (Engineering Honor Society)

www.tbp.org

Association for Computing Machinery (EWB):

www.acm.org

Institute of Electronic and Electrical Engineers

(IEEE) www.ieee.org

Further engineering-related student organizations can be found at

<http://www.unlv.edu/engineering/orgs>

UNLV Academic Advising for Entertainment Engineering & Design Majors:

Academic Advisors are available to meet with students about their academic and to assist in constructing a plan for graduation. Advisors can also help students understand how their experiences at UNLV can lead to a career in their desired field.

College of Engineering Advising Center

Phone: 702-895-2522_

Campus Location: TBE A-207

<http://engineering.unlv.edu/advising>

Helpful Career Information

Employers rate candidate soft skills/qualities in order of importance

- 1 Ability to verbally communicate with persons inside and outside the organization
- 2 Ability to work in a team structure
- 3 Ability to make decisions and solve problems
- 4 Ability to plan, organize and prioritize work
- 5 Ability to obtain and process information
- 6 Ability to analyze quantitative data
- 7 Technical knowledge related to the job
- 8 Proficiency with computer software programs
- 9 Ability to create and/or edit written reports
- 10 Ability to sell or influence others

Source: Job Outlook 2013

Courtesy of the National Association of Colleges and Employers

Visit the Career Occupational Handbook to learn more about a specific occupation:

<http://www.bls.gov/ooh/>

The OCH covers hundreds of occupations and describes: What They Do, Work Environment, How to Become One, Pay, and more. Each profile also includes BLS employment projections for the 2010–20 decade.

Career Exploration/Planning

FOCUS 2: UNLV's computerized assessment that profiles your interests, abilities, and values and helps you find a career that's right for you.

<http://hire.unlv.edu/careerAssessment.html>

Myers-Briggs Type Indicator (MBTI): Assessment designed to identify how you are energized, how you take in information, how you make decisions, and how you approach life.

<http://hire.unlv.edu/careerAssessmentMBTI.html>

Strong Interest Inventory: Generates an in-depth assessment of your interests among a broad range of occupations, work and leisure activities, and educational subjects.

<http://hire.unlv.edu/careerAssessmentStrong.html>

UNLV Career Services

Career Services encourages ALL UNLV students to take advantage of their services, which include:

- Assistance with developing a career plan and choosing a major
- Career counseling and guidance on building a RESUME
- Preparing for an interview, assistance with job searching and networking.

Phone: 702-895-3495

Campus Location: SSC-A 2nd Floor

<http://hire.unlv.edu/>

Internship Opportunities

The College of Engineering maintains a webpage listing employment and internship opportunities for College of Engineering students. Please visit:

<http://www.unlv.edu/engineering/opportunities>

UNLV's **Hire a Rebel** is a free, online recruiting system that helps students, alumni, and employers connect in a variety of ways. Students can use **Hire a Rebel** to search for: job and internship listings, on-campus recruiting interviews, employer information sessions, resume book database, & dates for career fairs.

<http://hire.unlv.edu/careerLink.html>

MEDIAN SALARIES BY DISCIPLINE 2010-2012

Career	Salary Range	Median Salary
Entertainment Automation Systems Designer	\$50,000-\$70,000	\$60,000
Entertainment materials & machinery engineer	\$50,000-\$70,000	\$60,000
Entertainment Structures Engineer	\$50,000-\$70,000	\$60,000

Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2012-13 Edition*, <http://www.bls.gov/ooh/>

UNLV | ACADEMIC ADVISING
Collaborate to Graduate