

Entertainment Engineering and Design

Entertainment engineering and design is an interdisciplinary undergraduate minor in the Colleges of Engineering and Fine Arts. Technologies from both disciplines are interwoven into this program in order to offer students the opportunity to be on the cutting edge of emerging technologies in the entertainment industry. Las Vegas is known as the 'Entertainment Capital of the World' largely due to the rapid growth of entertainment venues primarily located on the Las Vegas Strip. As new venues are built, the need for new and emerging technologies increases.

Informatics

Informatics is a multi-disciplinary degree that involves the study of technology, information, and people. Informatics appeals to students who are interested in the applications of computing technology to other academic disciplines such as fine arts, hotel administration, humanities, and public health. Students work with both informatics and these other disciplines to determine a sequence of cognate courses that are an ideal match with their interests and career objectives. Informatics graduates apply their computing skills in a wide range of industries such as entertainment, gaming and game development, health care, hospitality, law and law enforcement, and security. Collaborative projects and internships are built into the degree program to provide the graduate with a seamless integration into the workplace.

Mechanical Engineering

Mechanical engineering is a broad discipline at the forefront of technological advancements in aerospace systems, energy conversion, fluid mechanics, machine design, and manufacturing. Today's mechanical engineers are routinely working on a variety of new ideas and innovations, including automatic controls, computer graphics systems, laser systems, new energy sources, and robotics in applications related to aircraft design, automobile design and combustion engines, orthopedic biomechanics, problems of heating and lubrication, robot vision, and the development of microprocessors and computer-based computational algorithms.

CONTACT INFORMATION

University of Nevada, Las Vegas
Howard R. Hughes College of Engineering
4505 Maryland Parkway - Box 454005
Las Vegas, NV 89154-4005
Phone (702) 895-3699
engineering.unlv.edu



what is engineering?

Engineers analyze, create, design, develop, maintain, and apply technology to improve our communities. They seek to enable and cause change by making human-made products that supplement natural items.

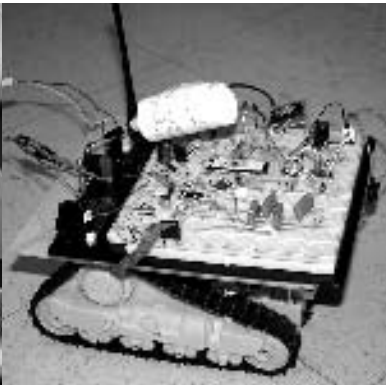
In other words, they design articles that are an extension of our human capabilities. Engineers develop tools, theories, and methods through the use of mathematical and scientific fundamentals and principles. Engineers must possess an aptitude and understanding of these fundamentals and principles in order to apply technology to the needs of our society. Also included in our engineering college are the necessary technical fields of computer science and informatics.



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HOWARD R. HUGHES COLLEGE OF ENGINEERING

ENGINEER A DIFFERENCE.



UNLV
UNIVERSITY OF NEVADA LAS VEGAS



THE Howard R. Hughes college of engineering

UNLV's Howard R. Hughes College of Engineering includes the following engineering disciplines: aerospace studies/AFROTC; civil and environmental engineering; computer and electrical engineering; construction management; entertainment engineering and design; mechanical engineering; computer science; and informatics.

the UNLV campus

The University of Nevada, Las Vegas is committed to academic excellence in each of its more than 220 undergraduate and graduate programs. Following a decade of unprecedented growth in enrollment and facilities, the campus is now focusing its resources on those qualities which make this university great: its academic offerings, its faculty and staff, and its students.

The university's commitment to learning is reflected in the core curriculum required of every student. The core provides a solid background in the humanities, fine arts, mathematics, science, English, and social sciences. Its purpose is to broaden the knowledge of all students, regardless of major.

Air Force ROTC

The Air Force Reserve Officer Training Corps (AFROTC) is an educational program designed to provide university students, male and female, with the opportunity to become an Air Force officer while completing an academic degree. The Air Force ROTC program provides cadets with the opportunity to develop and strengthen leadership skills, while maintaining camaraderie within the corps. Air Force ROTC offers two-, three-, and four-year programs and all begin with the general military course. As a freshman or sophomore, you'll normally attend one hour of class and one or two hours of leadership laboratory each week.

Civil and Environmental Engineering

Civil and environmental engineering involves the planning, analysis design, construction, and operation of the many components of our nation's infrastructure. The classic field of civil engineering is concerned with the engineered construction of buildings, foundations, and bridges essential to the quality of life of an industrial society. Today's civil engineers are also involved with applications of artificial intelligence and geographic information systems, development of new and improved materials used in design and construction, and many aspects of environmental engineering, including storm water quality, air pollution control, and solid and hazardous waste management.

COMPUTER and electrical ENGINEERING

Computer and electrical engineering is the application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Electrical engineers have been responsible for the creation of electric power, modern electronics, computers, electronic communication systems, modern flight controllers, automated manufacturing, and medical diagnostic tools. Computer engineering is involved in the processing, transmission, control, and distribution of vast quantities of information used by the industrial, commercial, and private segments of our society in everyday activities. Computer engineers are responsible for the analysis, design, and development of systems that prove, communicate, interface, and display information. Students study computer and logic design, digital and engineering electronics, digital systems and interfacing, microprocessors and general computer systems – all with a unique electrical engineering proclivity.

Computer Science

Computer science is the study of theory, design, and application of computers. It is a rapidly evolving field based on mathematics, logic, electronics, linguistics, and systems engineering. The School of Computer Science gives primary emphasis to the development of software and the use of computers by stressing study of the creation and analysis of algorithms, the development of programming systems, and the integration of software and hardware into a rapid, highly reliable problem-solving system. Computer scientists pursue applications and new knowledge in artificial intelligence and expert systems, programming language processing, computational complexity, communication systems and networking, computer graphics and image processing, robotics, and the implementation of highly complex information systems used in industry, business, and government.

Construction Management

Construction management involves the planning, engineering, performance, and management of the construction process. Construction engineering and management covers the construction of all types of engineered facilities including residential and commercial buildings, bridges, highways, power plants, water and waste water treatment facilities, and other public works essential to the quality of life of an industrial society. The construction management program serves the educational, research, and service needs of the construction industry by focusing on a blend of topics related to both the engineering and management sides of construction.

