

MAJOR TO CAREER GUIDE

Civil Engineering

Howard R. Hughes College of Engineering

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 Civil Engineering

As a student in our B.S. in Civil Engineering program you will be prepared to perform at the entry level in civil engineering practice so that, some years after graduation, you can become licensed professionals having responsibility for the planning, design, implementation, operation and continuous improvement of civil engineering structures and infrastructure. You will be provided with skills and tools for life-long learning, continuing professional development, and to pursue advanced degrees.

A bachelor's degree in civil engineering prepares you for a broad variety of careers in the field, including transportation engineering, environmental/water resources engineering, geotechnical engineering, land development and structural engineering.

The degree program is accredited by the Engineering Accreditation Commission of ABET (Accreditation Board for Engineering and Technology, Inc.)

Civil Engineering Career Options

- Geotechnical Engineer
- Transportation Engineer
- Environmental/Water Resources Engineer
- Structural Engineer
- Construction Site Engineering Supervisor
- Civil Engineer

Graduate Programs

Students interested in furthering their education at the post-graduate level have several opportunities to pursue a Master of Science and Doctor of Philosophy. At UNLV the Department of Civil and Environmental Engineering and Construction offers the following post-baccalaureate degree options:

- Master of Science in Engineering – Civil and Environmental Engineering
- Master of Science in Transportation – Transportation
- Doctor of Philosophy – Civil and Environmental Engineering

<http://www.unlv.edu/ceec/grad-programs>

Student & Professional Associations

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

American Society of Civil Engineers (ASCE)

www.asce.org

National Society of Professional Engineers (NSPE):

www.nspe.org/

Engineers without Borders (EWB): www.ewb-usa.org

Tau Beta Pi (Engineering Honor Society) www.tbp.org

Further engineering-related student organizations can be found at <http://www.unlv.edu/engineering/orgs>

UNLV Academic Advising for Civil Engineering Majors:

Academic Advisors are available to meet with students about their academic goals 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
Civil Engineer	\$50,000-\$120,000	\$77,500
Environmental Engineer	\$48,000-\$120,000	\$78,000

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

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