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**Civil and Environmental
Engineering**

Applications for Admission

Applications are accepted through the College of Engineering Advising Office.

Civil and Environmental Engineering Department

The Civil and Environmental Engineering Department at UAEU has been ranked among the TOP 200 civil engineering departments in the world according to the 2012 QS World University Ranking. The Civil Engineering undergraduate program in the College of Engineering at the United Arab Emirates University is accredited by the Engineering Accreditation Commission of ABET.

Civil engineering students participated in the first running of the international Association of Higher Education Learning Outcomes (AHELO) test during the second semester of the 2011-2012 academic year. The test is running for the first time in the UAE and GCC and is administered by the Organization for Economic Cooperation and Development (OECD) and aims at evaluating learning outcomes based on international basis. This test is a part of a quality control process to ensure that the civil engineering program remains one of the highest standards on a world scale: <http://www.oecd.org/>.

The Civil and Environmental Engineering Department has more than twenty highly dedicated full-time faculty members. All faculty members of the department have earned Ph.D. degrees in Civil and Environmental Engineering from leading international academic institutions. The qualifications of the faculty members reflect the diversity of experiences and academic backgrounds of the faculty in the Department. The faculty members cover several areas of specialization that include structural engineering and concrete technology, surveying, highway and transportation engineering, geotechnical engineering, construction management, water resources and environmental engineering.

The Civil and Environmental Engineering Department has several specialized laboratories with state-of-the-art equipment. The labs are managed and supervised by experienced lab engineers and technicians. The experimental work and physical models are regarded as an essential element in the educational and research process. These labs are well equipped to serve both educational and research needs of the students and faculty. The department continuously adds the latest new equipment to help achieving the programs objectives.

Mission

The mission of the Department of Civil & Environmental Engineering at the United Arab Emirates University is to serve the country and the public through providing the highest quality civil engineering education using innovative delivery and interactive methods that best utilize the latest and dynamic development in information technology, respond in a timely and efficient manner to local and regional applied research needs, and interact with the society to provide the best quality professional service to the UAE community.

For more than thirty-five years, the Civil & Environmental Engineering Department at the UAE University has prided itself in producing competent civil engineers who have been successful in practicing civil engineering and who are attuned to the highest international standards of engineering preparation.

From the previous perspective, the Department of Civil & Environmental Engineering sets the following goals and objectives to achieve its mission:

CEE department activities:

The department offers a wide range of activities throughout the academic year including:

- ✓ Seminars and workshops
- ✓ Industrial training
- ✓ Fields trips
- ✓ ASCE UAEU chapter
- ✓ ACI UAEU Student Chapter
- ✓ Open day
- ✓ Exhibitions of graduation projects
- ✓ Participation in National and International Competitions

Department activities showcase:



CE Program Objectives:

The program educational objectives are to enable students to:

- ✓ Be committed to ethical standards, workplace safety measures and develop high level of awareness of social, economic, and environmental issues relevant to the civil engineering profession.
- ✓ Successfully deal with real life civil engineering problems and achieve practical, effective and optimum solutions based on sound science and engineering knowledge.
- ✓ Efficiently design, manage, execute and/or evaluate a civil engineering system/component to satisfy client needs per design specifications and/or requirements.
- ✓ Effectively use modern engineering tools and technical communication in different aspects of professional practices.
- ✓ Develop their knowledge, creativity and leadership and skills to cope with the rapidly evolving technologies.

Program Learning Outcomes (PLOs)

Upon successful completion of this program, students will be able to:

- ✓ Identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- ✓ Apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- ✓ Communicate effectively with a range of audiences
- ✓ Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- ✓ Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- ✓ Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- ✓ Acquire and apply new knowledge as needed, using appropriate learning strategies.

STUDENTS TESTIMONIALS

“I am so proud to be a civil and environmental engineering student. My major exposed me to a variety of new skills and experiences which will help me to show the innovative side of me in my career in the future.”



Student name: Hessa Sultan Alshamsi
Academic year: Fourth year.
Major: Civil Engineering

“One of the best steps that I always proud for it that when I was joined UAEU and learned for a future full of achievement. Now, I'm project manager for several projects in infrastructure.”



Student name: Hamad Saeed Al Shamisi
Project Manager.
Major: Civil Engineering

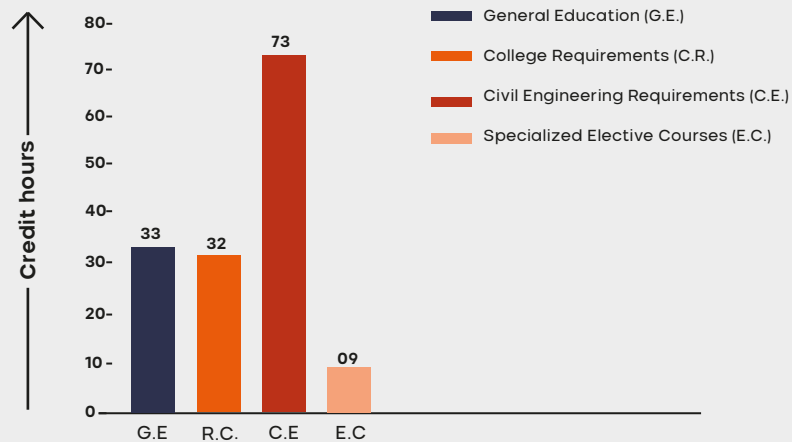
“Civil engineering has several fields such as construction, roads, maintenance, drilling, the environment, and from my point of view, I see that the major is interesting and has several areas that made me understand civil engineering in all its branches, as it was not limited to construction only as I thought and you will listen more in understanding Civil engineering through experiments we did as laboratories.”



Student name: Jawaher AlNaqbi
Major: Civil Engineering

Study Plans

At undergraduate level, the department offers a major Civil Engineering which requires completing 147 Credit hours based on the following:



General Education

- Clusture-1:** Skills for future (15 credit hours)
- Clusture-2:** The human community (12 Credit hours)
- Clusture-3:** The natural world (6 credit hours)

Required courses for college of Engineering

Common courses required for all Engineering students such as Eng. Ethics, Materials Science, Thermodynamics, Physics, Chemistry, Math, Computer programming....etc.

Civil Engineering core courses

Core courses required for the civil program such as Basic Microbiology Statics Mechanics of Material, Introduction to Environmental Engineering, Structural Analysis, Transportation Engineering, Surveying, Soil Mechanics, Concrete Technology...etc.

Elective Courses

A student must complete 9 credit hours from the following baskets (not necessarily from the same basket):

- 1-Structural Engineering
- 2-Water Resources and Environmental Engineering
- 3-Surveying and Transportation Engineering
- 4-Geotechnical & Construction Management

Research Areas

Civil and environmental Engineering

- ✓ Structural Engineering
- ✓ Construction Engineering and Management
- ✓ Highway and Transportation
- ✓ Geotechnical Engineering
- ✓ Water Resources Engineering
- ✓ Environmental Engineering
- ✓ Surveying

