Why Join AUC’s Construction Engineering Program?

• AUC provides quality professional education that advances the ideals of American liberal arts and lifelong learning. As freedom of academic expression is fundamental to this effort, AUC encourages the free exchange of ideas and promotes open and ongoing interaction with academic institutions throughout Egypt and other parts of the world.

• The University environment is designed to advance proficient use of the tools of learning as well as students’ thinking capabilities, language and personal skills.

• Students are trained by outstanding faculty with PhDs from leading academic institutions around the world.

• AUC has one of the best English-language libraries in the Middle East, equipped with state-of-the-art information search technologies.

• The campus includes up-to-date computer facilities and software, as well as well-equipped experimental laboratories in nearly every specialty.

• Students have access to a rich and diverse student life with a broad array of extracurricular activities.

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• A state-of-the-art campus in New Cairo that is spacious, technologically advanced and environmentally sensitive offering world-class educational resources.

Faculty

Abou Zied, Mohamed Naguib
Professor, PhD 1994, University of Kansas, USA
Areas of specialization: Construction materials and quality control, protection and repair of structures

El-Sayed, Ahmed S.
Associate Professor, Director of the Environmental Engineering Program, PhD 2003, University of Waterloo, Canada
Areas of specialization: Water Resources and Environmental Engineering

El-Sayed, Ezzeldin Yazeed
Professor, Director of the Graduate Program, PhD 1994, University of Calgary, Alberta, Canada
Areas of specialization: Structural analysis and design of steel and concrete structures

Research

Current faculty members are engaged in research in all areas of construction engineering and management, structural analysis and design, civil engineering materials and environmental engineering.

Accreditation

• AUC is accredited in the United States by the Commission on Higher Education of the Middle States Association of colleges and schools.

• The Bachelor of Science in construction engineering is accredited by the Supreme Council of Engineers in Egypt. Graduates of programs accredited by the council are eligible to register as professional engineers in Egypt.

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• The construction engineering program is accredited by the Engineering Accreditation Commission of the ABET.
Our Mission
To provide a high-quality engineering education within a liberal arts context to students from Egypt as well as from other countries. The aim is to produce generations of construction engineers and architects who will be leaders in their profession. The pursuit of excellence is central to the department’s mission, maintaining high standards of academic achievement, professional behavior, and ethical conduct.

Construction Engineering Program Objectives
1. Educate students in the fundamentals of science and engineering needed to pursue successful careers in the construction engineering profession.
2. Introduce students to the broad spectrum of construction engineering topics, with a concentration in their choice in construction materials and structures, construction management, and environmental engineering.
3. Prepare students to cope with and improve upon the ever-evolving technologies in production, products and components of the construction industry.
4. Enable students to communicate effectively, work independently and in teams, and fit within multidisciplinary and multicultural environment.
5. Inspire students to recognize and consider the impact of engineering topics, with a concentration of their choice in construction materials and production, products and components of the construction industry.
6. Motivate students to engage in lifelong learning and develop their ability to pursue further studies.
7. Develop students who are creative, possess qualities of leadership and are committed to professional and ethical conduct.

Academic Offerings
Students of the construction engineering program are enrolled in a program that grants them a Bachelor of Science degree in construction engineering with a concentration in one of the following fields:

- Construction Management and Technology
- Construction Materials and Structures
- Construction Engineering Computing
- Environmental Engineering
- Concrete Materials Testing
- Asphalt Materials Testing
- Civil Mechanics
- Engineering Surveying
- Computer-Aided Construction Lab

Graduation Requirements
In order to fulfill the curricular objectives, the construction engineering program is designed as a five-year program. A total of 162 credits is required for the Bachelor of Science in construction engineering, which is divided into the following categories:

- Core Curriculum: 33 credits
- Engineering Core Requirements: 49 credits
- Construction Engineering Concentration: 65 credits
- Construction Engineering Requirements: 12 credits
- Science Electives: 3 credits

Facilities and Specialized Laboratories
The Construction Engineering curriculum is served by specialized well-equipped laboratories, in addition to laboratories in the sciences department. The specialized construction engineering laboratories include:

- Asphalt material testing
- Construction engineering computing
- Concrete materials testing
- Hydraulics engineering / Fluids mechanics
- Civil mechanics
- Engineering surveying
- Environmental engineering
- Aggregate testing
- Construction materials
- Construction methods
- State-Of-The-Art Structural Testing Facility
- Computer-Aided Construction Lab

Extracurricular Activities
Students participate in many extracurricular professional activities throughout their years of study. They are encouraged to become active members of local and national professional societies, and to establish links within the industry at all levels.

The Construction Engineering Association (CEA), established in 1991, is a non-profit student organization, supervised by the construction engineering department. The CEA has expanded its activities offered to construction engineering students to include organizing international study-related trips.

Career Prospects
All present, the local and international demands for construction engineering is much higher than the supply. As such, construction engineering graduates are in high demand and have no problem finding good job opportunities immediately following their graduation. Both local and international contractors and engineering firms are keen on acquiring construction engineers to improve their firm’s performance and profitability.