Building the Ranks of Skilled Workers

The University of Arizona’s construction engineering management and heavy construction engineering program for undergraduate students provides practical, career-oriented courses for promising young engineers who want to work in construction.

- project delivery methods
- quantity take-off and cost estimating
- equipment
- contract documents
- cash flow
- risk management
- scheduling
- leadership

I have always admired seeing projects come to life. The CEM courses in construction management and cost estimating have been realistic, challenging and rewarding, and a mentorship with an industry professional has been a great source for advice and guidance. I look forward to applying my skills and knowledge.

Abigail Davidson, UA civil engineering, Class of 2016

The construction engineering management program emphasizes practical content informed by industry practice. The program stresses working with industry leaders in the classroom and in the field. It gives students first-hand career knowledge and provides the industry with students trained and ready to work in construction.

Mark Woodson (UA BSCE 1979, MBA 1985), president, Woodson Engineering and Surveying Inc.; president, American Society of Civil Engineers 2016
Delivering Value to Construction Companies

Construction companies tap into a pool of UA civil engineering and engineering management graduates with the knowledge and motivation to make immediate contributions in the industry.

- access to highly qualified interns and prospective employees
- reduced training and new hire costs
- collaboration with faculty and input into the curriculum

The CEM Program has a strong partnership with industry to address the acute need to educate the next generation of construction industry leaders.”

Ramon A. Gaanderse, executive director, Arizona Transportation Builders Association

Growing up I was astonished by the prospect of building outstanding structures. Thanks to the construction engineering courses at the UA, I was able to realize that dream and now am enjoying every day on the job.

Isaac Gilles, field engineer, Hensel Phelps Construction Co.

Securing CEM’s Future

Thank you to the companies, organizations, alumni and friends who have generously supported the program’s annual operating expenses!

- Ashton Contractors and Engineers
- ExxonMobil
- Granite Construction Inc.
- KE&G Construction
- Sundt Construction
- Henry George Mackintosh Foundation

To continue growing and sustaining the CEM program, the UA College of Engineering is working to establish a $5 million endowment. Please consider making a gift to the endowment.

Students working with our estimating and construction teams gain an understanding of what a career in the construction industry involves, and we get opportunities to preview employment candidates. We look forward to continued support of this outstanding program, and providing careers for its graduates.

Todd Keller, vice president and regional manager, Granite Construction Inc.