

Design Your Career. Build Your Future.

Bachelor of Science Degree in Construction **Engineering**
Bachelor of Science Degree in Construction **Management**



Think Smart. Think Fast. Think Big.

The global construction industry accounts for approximately 7% of employment, 10% of the world economy, 40% of energy consumption, 50% of resource usage, and 5.6 trillion dollars of spending per year. Construction engineers work with architects and other engineers to design projects, while construction managers are responsible for getting them built. Starting salaries for construction engineering and construction management graduates average about \$50,000 nationwide.

Buildings: Estimate the costs. Test the soil. Bid for the job. Survey the site. Plan and schedule the project. Design and build the foundation. Design the structure and erect beams, columns, and slabs made from concrete and steel. Design and install mechanical, electrical, and plumbing systems. Add the finishing touches. Architects, engineers, and contractors work together to create buildings that are structurally sound, fully functional, energy efficient, and aesthetically appealing, within the constraints of safety, time, and cost.



Public Works: Call in the heavy equipment. Prepare the site. Blast and excavate soil and rock. Design and build temporary structures, such as formwork, falsework, scaffolding, shoring, bracing, temporary bridges and trestles, cofferdams, and heavy lift rigging. Design and build public works, such as highways, bridges, dams, airports, railroads, power plants, and water/wastewater treatment plants. Engineers and contractors work as a team to create the infrastructure that powers our world, connects us to each other, and grows the global economy.



Construction Engineering
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Construction Management
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ualr.edu/constructionmanagement