Department of Construction Management and Engineering

www.ndsu.edu/construction

Degree Programs:
Bachelor of Science in Construction Engineering
Bachelor of Science in Construction Management
Graduate Certificate in Construction Management (online)
Master of Construction Management (online)
Master of Science in Construction Management
Doctor of Philosophy with an emphasis in Construction Engineering
People often ask me, “What does a construction professional do?” The major duties for a construction professional are to build and maintain the infrastructure system—the centerpiece of sustaining the civilization of human society. From the very beginning, people needed to build shelter to protect themselves from the harsh living environment. With the development of human society, monuments have also been built. Egyptians built the pyramids, the Chinese built the Great Wall, the French built the Eiffel Tower, and Americans built the Hoover Dam. These are just a few examples of the major accomplishments of construction professionals. The construction industry is also the backbone of the economic system, employing millions of people and representing about 8% of the GDP in the United States. Unlike some industries, which can be shipped out overseas, the construction industry has to construct buildings, highways, and bridges on site, which means that construction-related jobs will stay in the United States.

With the development of our society, it has become more challenging for the construction industry to continuously support economic development and maintain the quality of our life. To meet these challenges, formal construction education was established after World War II. The first construction program at NDSU was established in the late 1960s. After more than 40 years of development, NDSU now offers several construction programs in the Department of Construction Management and Engineering. The Department, with its state-of-the-art lab facilities and dedicated faculty and staff, offers five degree programs and one graduate certificate program. The Bachelor of Science in Construction Engineering is the third oldest ABET accredited Construction Engineering degree program in the United States, and the Master of Construction Management program is the first online program in the College of Engineering at NDSU. Students also have the opportunities to study with students in other countries. The Department has a 2+ program with Shandong Jianzhu University in China. Additionally, students can enroll in a summer study abroad course, GO GREEN, and visit Germany. The Construction Department has been enhanced by the faculty research results and the active involvement of faculty members in construction organizations both in the United States and overseas.

Humans no longer need to construct shelters to protect themselves from the threats of the environment that they live in. Now, the challenge is how to protect the environment from the construction activities. One of the solutions is sustainable construction, which aims to reduce the environmental impact of infrastructure and better utilize energy resources. To promote and achieve sustainable construction, we need the best and brightest students to join the construction profession. The NDSU Construction Programs, with their affordable tuition rates, are designed to educate students with necessary knowledge, skills, and tools to confront the sustainability challenge. Many young men and women have taken advantage of NDSU Construction Programs over the last 40 years and become industry leaders both in the United States and overseas. I invite you to look into our programs and see if they fit your personal interests and career goals. Please do not hesitate to contact us if we can provide any assistance.

North Dakota State University (NDSU) is located in Fargo, the largest city in North Dakota. Fargo boasts its safety and friendliness, as well as its research university, NDSU. NDSU was founded in 1890, and has since grown to an institution offering more than 100 different majors. The university is accredited by the Higher Learning Commission of the North Central Association of Colleges and Secondary Schools. The National Science Foundation has placed some of NDSU’s programs in the Top 100 ranking. The Carnegie Commission on Higher Education ranks NDSU in the top 108 public and private universities in the United States. The Department of Construction Management and Engineering was established in 1978.
Student Organizations:
- Associated General Contractors of America
- National Association of Home Builders
- Sigma Lambda Chi
- Student Advisory Council

Useful Websites:
- North Dakota State University:
  http://www.ndsu.edu
- Construction Department:
  http://www.ndsu.edu/construction
- Office of Admission:
  http://www.ndsu.edu/admission
- Financial Aid:
  http://www.ndsu.edu/bisonconnection/finaid
- North Dakota tourism:
  http://www.ndtourism.com
- Fargo-Moorhead Tourism:
  http://www.fargomoorehead.org

Teaching Laboratories:
- Computer Laboratory
- Concrete Materials and Performance (CMP) Laboratory
- Soil and Highway Materials Laboratory

Research Laboratories:
- Computational and Sustainable Infrastructure (CSI) Laboratory
- Emerging Technologies for Sustainable Infrastructure Laboratory
- Immersive Virtual Design and Construction (iVDC) Laboratory
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