



CIVIL ENGINEERING

BACHELOR OF SCIENCE (B.S.)

The Golden Gate Bridge, the Hoover Dam, and the Eiffel Tower—all three of these iconic structures were designed and constructed alongside civil engineers.

Civil engineers plan, design, and oversee the construction and maintenance of infrastructure projects. Much of what we rely on in everyday life, such as the roads we drive on and the systems that provide clean water to our homes, are civil engineering projects. As the U.S. infrastructure ages, environmental disasters persist, and renewable energy expands, the demand grows.

OPPORTUNITIES AT KING'S COLLEGE

Courses are designed around real-life examples in connection with the practices in the industry so that students can easily relate the theories with practice. Here is what else makes our program unique:

Authentic engineering experience: design throughout the program with tools real engineers use in the industry to solve complex, open-ended problems. Visit construction sites, tour engineering offices, and attend local professional engineering meetings.

Service-learning projects: work on a team with clients from the local community and use your creative problem-solving skills.

Engineering Accreditation Commission of ABET: only accredited program in Northeastern Pa.

Integration of professional and technical skills: to design infrastructure that works for people, civil engineers need to start by understanding client needs, analyzing feedback, and communicating processes with stakeholders. You won't just learn technical skills but also practice professional skills in a real-world context.



MATTHEW J. MARSH '20
Reuther+Bowen | PA DEP

"What I enjoy most is that I do something different almost every day. Although the structure remains relatively consistent, no project is the same, and each demands a different approach to problem-solving. This keeps everything interesting and allows me to use my education to its fullest potential."



**KING'S
COLLEGE**
TRANSFORMATION. COMMUNITY. HOLY CROSS.

CAREER OPPORTUNITIES

Our graduates enter the workforce with real-world engineering experience and a strong desire to use their skills in the service of others. As a civil engineer, you can be involved with many types of projects and spend time on project sites or in an office setting. Career paths can be customized with your personal interests and development through professional licensure, graduate degrees, or specialized technical training and certifications. Graduates find successful careers as:

- building engineer
- environmental engineer
- urban planner
- construction manager
- project manager
- surveyor

DEGREE REQUIREMENTS

Below is a list of courses offered in this program. For a complete list of programs and courses, see our Degree Requirements online.

ENST 202/L	Environmental Science II
CE 111/L	Computer Applications for Civil Engineers
CE 200/L	Introduction to Civil Engineering
CE 300	Dynamics
CE 310/L	Fluid Mechanics
CE 320	Civil Engineering Materials
CE 325L	Materials and Soils
CE 340/L	Hydraulics and Hydrology
CE 350	Environmental Engineering
CE 360	Soil Mechanics
CE 400/L	Structural Design and Analysis I
CE 410/L	Structural Design and Analysis II
CE 420	Transportation Engineering
CE 440/L	Senior Design
CE 450	Special Topics in Civil Engineering
CE 480	Senior Civil Engineering Seminar
ENGR 150	Engineering Seminar
PHYS 241	Statics
PHYS 242	Mechanics of Solids
ENGR 350/L	Engineering Materials
ENGR 360	Probability and Engineering Statistics
CHEM 113/L	General Chemistry I
PHYS 113/L	Physics for Scientists and Engineers I
PHYS 114/L	Physics for Scientists and Engineers II
MATH 129	Analytic Geometry/Calculus I
MATH 130	Analytic Geometry/Calculus II
MATH 231	Analytic Geometry/Calculus III
MATH 238	Differential Equations



\$95,890

MEDIAN ANNUAL SALARY FOR CIVIL ENGINEERS

5%

OVERALL EMPLOYMENT GROWTH FROM 2023-33

Statistics provided by U.S. Bureau of Labor Statistics

CONTACT US

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