

# CIVIL ENGINEERING



For the fall of 2017, King's College is introducing new Bachelor of Science programs in Mechanical and Civil Engineering, which will complement our successful 3+2 Engineering Dual Degree program.

The engineering programs at King's emphasize project-based learning and feature state-of-the-art laboratory equipment, computer-aided design software and simulation tools.

Our practical and broad-based learning approach will arm you not only with technical skills, but also the critical reasoning and communication know-how to be a dynamic asset in the workforce. The innovative spirit you will undoubtedly gain here will set the tone of your career for years to come.

The B.S. in Civil Engineering at King's is designed to provide the basic undergraduate education required for private and public service in civil engineering, or to continue formal education in the engineering field. The curriculum emphasizes the fundamental principles of civil engineering and design techniques.

Civil engineers engage in a broad range of infrastructure-related enterprises, including the design and improvement of highways and railroads, airports, bridges and tunnels, dams, harbors, and channels, to name just a few. According to the U.S. Bureau of Labor Statistics, demand for civil engineers will continue to grow by more than 15 percent annually.

The program's flexible design makes it possible for students to develop a concentration in several areas, including construction, transportation, environmental, general, and structural engineering. Study through these areas may lead to employment opportunities as structural designers for buildings and infrastructures, project engineers for construction projects, or representatives for owners or contractors.

With our small class sizes, engineering programs at King's are especially appealing to students who desire individual attention. Our students are actively engaged with their classmates and professors, and are encouraged to take both analytical and creative

approaches towards solving engineering challenges.

## Curriculum

The curriculum for the Civil Engineering program includes the following topics:

- Mathematics, Probability and Statistics
- Computational Tools
- Ethics and Professional Practice
- Engineering Economics
- Statics
- Dynamics
- Mechanics of Materials
- Material Properties
- Fluid Mechanics
- Hydraulics and Hydrological Systems
- Structural Analysis
- Structural Design
- Geotechnical Engineering
- Transportation Engineering
- Environmental Engineering

The engineering programs at King's take an interdisciplinary approach toward exposing students to the transferable skills of liberal learning valued in a King's College education. We want to instill in our students the values that King's College and the Congregation of Holy Cross represent. Our mission is to give our students a transformative experience by helping them develop the skills to start a career within the engineering profession, as well as a sense of social responsibility and a commitment to serve others.

Engineering is a noble and rewarding profession that enables practitioners to create value for society in a variety of ways and have a profound impact on human progress. Engineering can be viewed as both a profession and a vocation—a way to make a living, but also a call to service for the benefit of others. Consider joining us at King's College as we work toward engineering a better future.

To learn more about majoring in Civil Engineering at King's College, please contact the Office of Admission at 1-888-KINGS PA or [admissions@kings.edu](mailto:admissions@kings.edu).

## Academic Excellence

A King's education is centered around our nationally recognized core curriculum and challenging major programs, which help students discover and build on their strengths while exploring their interests. An innovative four-year plan of career development across the curriculum helps students focus on finding a job they love and a fulfilling career.

## Supportive

All of our classes are taught by professors (not teaching assistants) and average 18 students, which allows for meaningful interaction with professors. More than 86% of our faculty have a Ph.D. or equivalent terminal degree so students learn from and work with world-renowned faculty members. With over 99% of first-year students receiving financial assistance, King's strives to make it possible for promising students to attend our college.

## Successful

With 99% of King's graduates employed or attending graduate or professional school within six months of graduation, our alumni go on to successful careers. Internships, undergraduate research and study abroad programs offer students the chance to gain experience in their chosen fields. Comprehensive career advisement, on-campus recruitment and a strong alumni network increase job opportunities.

## Nationally Recognized

- *U.S. News & World Report's* Best Colleges in the United States
- *Barron's Best Buys in College Education*
- *The Princeton Review's* 2014 Best Colleges: Region by Region
- *Forbes Magazine's* America's Best Colleges 2016
- *The Washington Monthly* magazine
- The President's Higher Education Community Service Honor Roll
- The American Association of Colleges and Universities' Greater Expectations Initiative
- The John Templeton Foundation Honor Roll for Character-Building Colleges
- America's Catholic Colleges of Distinction
- A "Leadership Institution" by the American Association of Colleges & Universities
- AACSB International—The Association to Advance Collegiate Schools of Business



## Stay Connected!

For a complete list of King's-affiliated social media accounts visit:  
[kings.edu/socialmedia](https://kings.edu/socialmedia)

