



MECHANICAL ENGINEERING

BACHELOR OF SCIENCE (B.S.)

From the steam turbines that power the U.S. to hip implants for the elderly, mechanical engineers design machines with the goal of helping people.

They make better use of energy by designing more efficient tools, buildings, and vehicles. Mechanical engineers design and power machines that manufacture millions of products around the world. Whether it's surgery, cleaning, manufacturing, or space exploration, they help people in just about every industry.

OPPORTUNITIES AT KING'S COLLEGE

Our curriculum is driven by the insights of our partners in industry who know the importance of creativity, practical thinking, and professional skills like teamwork and communication. Most of your mechanical engineering courses include hands-on experience. You'll solve complex, open-ended problems using the same tools that engineers use on the job, including CAD and simulation software, codes and standards, rapid prototyping, and machining equipment.

Here's what makes our program unique:

Small class sizes: our faculty works closely with students, helping to match your talents and passions with exciting, real-world opportunities.

Build a machine for a client: you could come up with a device that factory workers use to move heavy metals, a machine that controls flow for manufacturing particles, or even build a robot that uses ultrasound to navigate autonomously.

State-of-the-art facilities: our curriculum is taught at the brand-new Mulligan Center for Engineering, which houses four large multi-use classrooms, student study areas, faculty offices, and five fully equipped engineering laboratories.



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

CAREER OPPORTUNITIES

Since mechanical engineering is the broadest engineering discipline, we have options for career growth in technical specialization, management, and entrepreneurship. The constantly changing nature of technology makes you an attractive hire, even in slow market conditions. Possible careers include:

- mechanical technician
- biomedical engineer
- aerospace engineer
- CAD technician
- HVAC technician

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.

CHEM 113/L	General Chemistry I
CHEM 114/L	General Chemistry II
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
CS 111/L	Programming for Science and Engineering
ENGR 150	Engineering Seminar
ENGR 250/L	System Design and Analysis
PHYS 241	Statics
PHYS 242	Mechanics of Solids
ENGR 350/L	Engineering Materials
ENGR 360	Probability and Engineering Statistics
ME 200/L	Intro to Mechanical Engineering
ME 250	Thermodynamics
ME 320/L	Manufacturing Systems
ME 340/L	Dynamics
ME 350/L	Fluid Mechanics
ME 360/L	Heat Transfer
ME 380/L	Mechatronics
ME 400/L	Mechanical Design
ME 410	Special Topics in Mechanical Engineering
ME 420/L	System Dynamics
ME 441/L	Capstone Design I
ME 442/L	Capstone Design II



\$102,320

MEDIAN ANNUAL SALARY FOR
MECHANICAL ENGINEERS

11%

OVERALL EMPLOYMENT GROWTH
FROM 2023-33

*Statistics provided by U.S. Bureau of
Labor Statistics*

CONTACT US

Tabitha Sprau Coulter, Ph.D., C.E.M.
Associate Professor
Chair of Engineering Department
tabithaspraucoulter@kings.edu

Office of Admission
admissions@kings.edu
(570) 208-5900

kings.edu/mechanical