



PHYSICS

BACHELOR OF SCIENCE (B.S.)

**Join us on a quest to understand the nature of the universe!
Investigate the inner workings of the world in which we live
and all within it.**

Physics seeks to understand the properties and interactions of atoms, nuclei, and the fundamental particles of the universe. It deals with the forces that govern the history and the future of the universe, from the time of its birth to its ultimate fate. On a more practical scale, physics helps us understand the workings of the human body, the properties of engineering materials, and the most efficient uses of energy.

OPPORTUNITIES AT KING'S COLLEGE

King's equips physics graduates with key attributes desired by employers: the ability to analyze and solve complicated problems, experience with computers and an understanding of modern technology, an ability to place physics in a global and cultural context, and the ability to effectively communicate essential knowledge in oral, written, and quantitative forms.

Dedicated faculty: our faculty members are experts and dedicated mentors who prioritize your growth and success, regardless of your chosen career path.

Pathways to success: a minor in physics may also be paired with majors like chemistry, mathematics, computer science, engineering, and biology.

Personalized experience: our small class sizes foster mentoring relationships between students and professors.

Undergraduate research: gain independence and confidence with ownership of individual research projects. This offers the opportunity for students to gain field experience right on campus.



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

CAREER OPPORTUNITIES

The physics major curriculum is designed to provide students with an understanding of the four fundamental areas of physics – mechanics, electromagnetism, thermodynamics and quantum physics – while allowing students to choose elective courses to prepare them for graduate or professional programs, engineering programs, or industry. Graduates find success in roles such as:

- physicists and astronomer
- nuclear and aerospace engineering
- data science and analytics
- quantum computing
- AI, finance and technology

DEGREE REQUIREMENTS

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

PHYS 113	General Physics I
PHYS 114	General Physics II
PHYS 231	Modern Physics
PHYS 330	Classical Mechanics
PHYS 350	Thermodynamics and Statistical Mechanics
PHYS 371	Electricity & Magnetism I
PHYS 440	Quantum Mechanics
PHYS 490	Senior Seminar
CHEM 113	General Chemistry I
CHEM 114	General Chemistry II
MATH 129	Analytic Geometry and Calculus I
MATH 130	Analytic Geometry and Calculus II
MATH 231	Analytic Geometry and Calculus III
MATH 237	Math Methods for the Physical Sciences
MATH 238	Differential Equations

SIMILAR MAJORS

Mechanical Engineering B.S.

Creatively design a machine for a real client. From factory devices to robots that use ultrasound to navigate autonomously, you'll use your expertise to create machines that help people.

Civil Engineering B.S.

Explore our civil engineering program and learn to design all kinds of structures that help people, including bridges, dams, airports, harbors, and skyscrapers.

Chemistry B.S.

Explore the elements that make up our world! Whether you're captivated by molecular structures or excited by the vast applications of chemistry across various industries, our curriculum is designed to inspire and challenge you.



\$166,290

MEDIAN ANNUAL SALARY FOR
PHYSICISTS & ASTRONOMERS

7%

OVERALL EMPLOYMENT GROWTH
FROM 2023-33

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

CONTACT US

Kristi Concannon, Ph.D.

Professor
Program Director
Physics Department
kristiconcannon@kings.edu

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

kings.edu/physics