

Physics

Physics is the study of how the world works. It encompasses everything from subatomic particles to electronic devices to the structure of galaxies and the evolution of the universe. It also includes the study of the forces and fields that govern the physical behaviour of everything around us.

The appeal of physics is more than just the joy of understanding the world we live in, however. Physics has also led to the development of amazing technologies that we take for granted: devices like smart phones, GPS units, MRI scanners and countless others. These innovations exist because someone--a person like you--studied physics and figured out something new about how our universe works.

Here at KPU we offer a BSc Major in Physics for Modern Technology that emphasizes both aspects of physics: the fundamental study of how the world works as well the technological applications of physics.

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STUDENT PROFILE

Physics appeals to students who are interested in learning about the laws of nature and the relationship between energy and matter. Students pursuing a career in physics should be comfortable with mathematical concepts and how to apply them, able to utilize logic in solving problems, and have an interest in or knowledge of computer programming. The Physics for Modern Technology program will appeal to students who also want to learn about the applications of physics to modern technology and who plan to enter the workforce after completing their undergraduate degree.

CAREER OPPORTUNITIES

Graduates of our Physics for Modern Technology program will be equipped to work in a variety of areas including (but not limited to):

- Green energy technology
- Industrial process control
- Electronics
- Robotics
- Technical sales
- Teaching

Physics covers a range of specialized fields. Students who wish to work or study in one of these fields may need to pursue additional education or graduate studies. These specialized fields include:

- Astrophysics
- Atomic and Molecular Physics
- Condensed Matter Physics
- Geophysics
- Materials Physics
- Nuclear and Particle Physics
- Optics
- Physics Education