

DEPARTMENT OF PHYSICS

If you are interested in a physics career, we know you are already inspired to study space, time, matter and energy and eager to advance your grasp of the vast physical world around us.

Our physics program will provide you with a strong foundation in the logic and philosophy of physics as well as opportunities for high-level scientific research, theory and practical, outcome-seeking experimentation. You will examine matter at every level, from subatomic particles to the galaxies, through theory and practical experimentation.

We welcome your intensely curious ways and desire to seek satisfying explanations about the world we live in. If you enjoy mathematics and analysis, you will learn to solve complex, real-world problems as you accomplish your academic and career goals backed by the following resources and services:

- Exceptional faculty will mentor you and help you get involved in the world of research early on in your college career
- The resources of a state university with a small college atmosphere where you don't have to "wait your turn" to get involved in research
- Hands-on learning experience in areas like robotics, laser bio-effects, atomic physics, material science, and more through our quality academic programs
- Share your passion for physics with classmates through science-driven student organizations
- Unique internships and research opportunities with leading scientists around the country will expose you to new cultures and ideas
- Small classes afford you the attention that ensures your success at engineering school, in your career and throughout your life
- The skills you learn, combined with extensive undergraduate research experience, will help you secure a rewarding career or earn acceptance to prominent graduate school programs

So You Want To Be An Engineer?

We have a Pre-Engineering (2+2) program; Dual Degree (3+2) program; or a Physics degree.

HOW IT WORKS

Pre-Engineering (2+2) (<https://catalog.fhsu.edu/science-technology-mathematics/physics/32-dual-physics-program/>)

- Spend two years at FHSU taking the science, math, and general education classes that are required for your engineering degree.
- Choose from a growing list of classes that are guaranteed to transfer within the state of Kansas.
- Transfer your credits earned at FHSU to an engineering school, and complete their program requirements.
- Earn an engineering degree from your engineering school.

Dual Degree (3+2) (<https://catalog.fhsu.edu/science-technology-mathematics/physics/22-physics-engineering-program/>)

- Complete the Pre-Engineering program at FHSU, and stay for another year to take upper-level physics classes.
- Transfer the credits you earn at FHSU to an engineering school, and complete their program requirements.
- Earn an engineering degree from your engineering school.
- Transfer the engineering degree you earn back to FHSU, and receive a physics degree from FHSU.

Physics Degree (<https://catalog.fhsu.edu/science-technology-mathematics/physics/physics-bs/>)

- Stay at FHSU and complete the physics degree in four years.
- With a B.S. in physics, you will be qualified to work in a variety of technical positions, including many with an engineering component.
- You will still have the option to go to graduate school to earn a masters or doctoral degree in engineering.