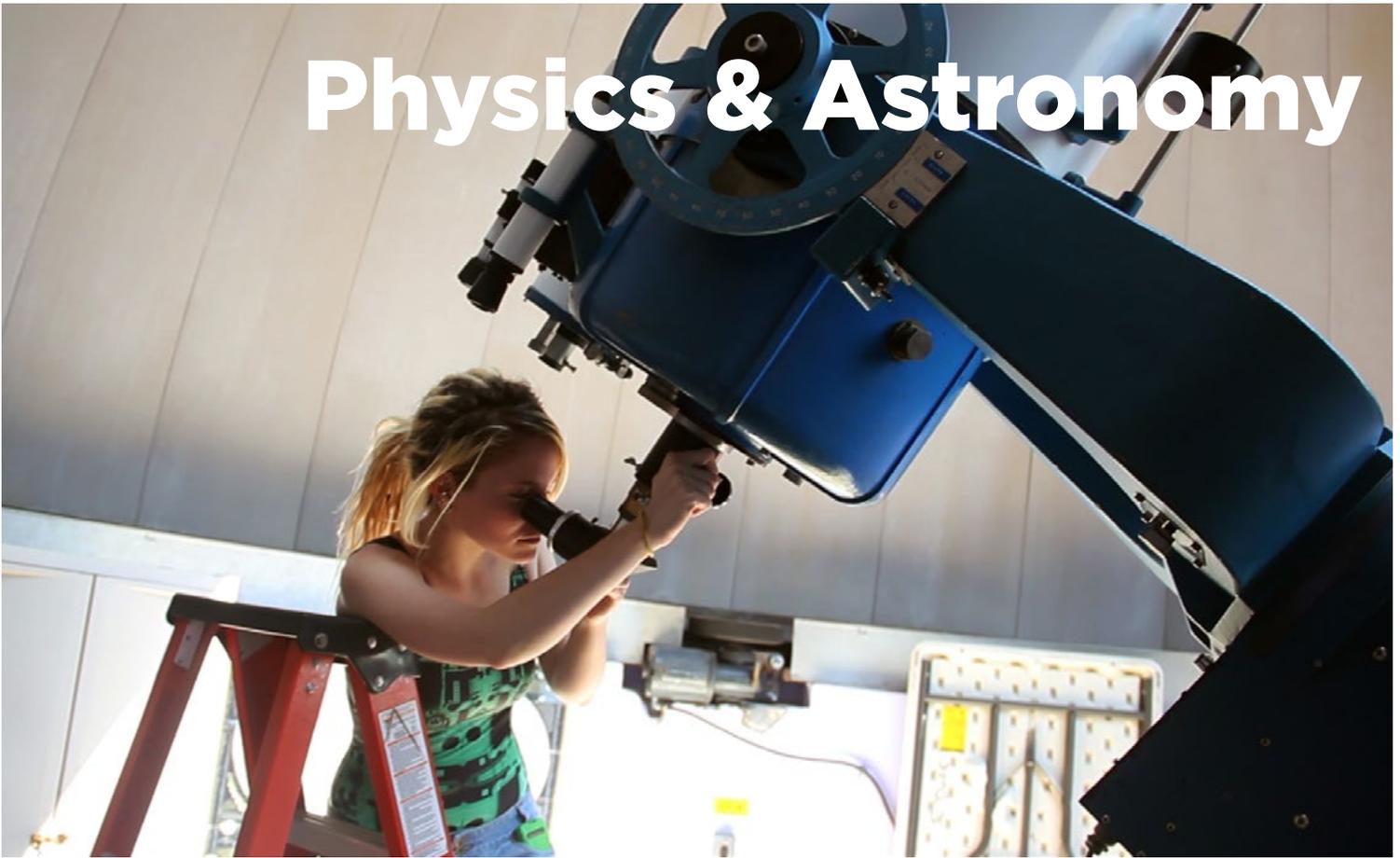


Physics & Astronomy



Why Study Physics?

Physics is the science that studies the structure and properties of matter and transformations of energy. Astronomy studies celestial objects, space, and the physical universe as a whole. With math as the language and experimental verification as a guide, physics has established the fundamental laws of nature that are the foundation of all natural sciences and technology.

By studying physics, you will acquire a solid understanding of physical principles, problem-solving strategies, mathematical and computational skills, and broad experimental training.

Careers & Jobs

A physics degree provides outstanding analytical, mathematical, and critical-thinking skills that are sought out in many different fields of employment.

With the skills and training that accompanies a physics degree, you can go into exciting careers in physics and astronomy research, medicine, engineering, teaching, space and atmospheric research, finance, computer science, or the biomedical field.

As a physics major, you can be hired by universities, national laboratories, observatories and science museums, biomedical companies, defense agencies and contractors, consulting and information technology firms, and industry (e.g., electronics, medical instrumentation, communications, engineering, noise pollution, sound recording, and film production).

Did You Know?

The **University of Missouri Research Reactor (MURR)** is the most powerful research reactor located on any of the nation's university campuses. This 10-megawatt facility makes it possible for physicists to probe the world.

Physics & Astronomy at MU

The department strives to provide you with the opportunity to fully realize your potential in a learning

Physics & Astronomy



environment dedicated to excellence and to giving you the one-on-one attention needed.

In our department, you will be able to participate in cutting-edge experimental, theoretical, or computational research in biological physics, condensed-matter physics, nanomaterials, energy storage, astrophysics, and general relativity working alongside a faculty member. Research experience gives you an edge in your future career, either for graduate school or for a job in the private sector.

Getting Involved

As a physics major at MU, you will have a variety of opportunities to expand your frontiers.

We have several [student organizations](#): The Physics Club, the local chapter of the Society for Physics Students (SPS), encourages community service amongst physics students and will help you gain leadership experience. Sigma Pi Sigma is the honors society for physics majors. The MU Student Astronomical Society groups students interested in expanding their knowledge about the universe. Their meetings include observing events in our Laws Observatory!

Many of our students gain experience teaching in a high school or as learning assistants in discussion sessions for introductory physics courses at MU.

Program of Study

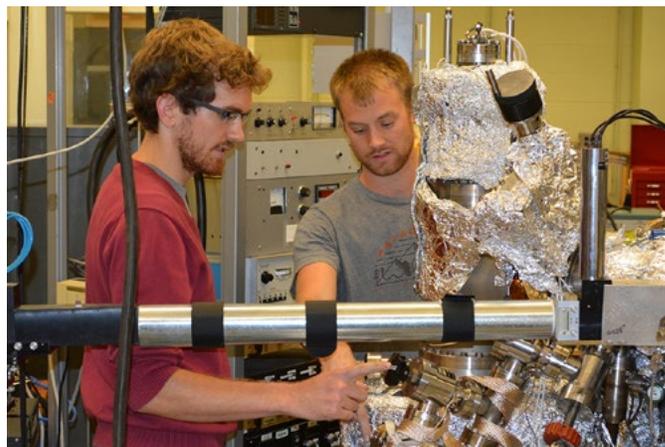
We offer two degrees in physics. The [bachelor of science \(BS\) degree](#) is designed to prepare you for a scientific career immediately upon graduation or for further training in graduate school. We offer emphasis areas that allow you to specialize in astronomy, biological physics, and materials science. You may also pursue two degrees simultaneously. Many

physics majors choose a dual degree with mathematics, science education, economics, statistics, engineering, biology, geology, or chemistry.

The [bachelor of arts \(BA\) degree](#) provides a broad coverage of classical and modern physics with a broader liberal-arts education. It is selected by students who plan to enter a professional degree, e.g., medicine, law, or who desire to pursue a teaching certificate.

Physics Scholarships

Each year, we are pleased to be able to offer a number of undergraduate scholarships to physics majors. These scholarships have been established by distinguished former teachers and alumni. Physics



scholarships are granted on the basis of motivation, aptitude, and achievement. Scholarships are also available through the College of Arts and Science.

For More Info



physics.missouri.edu



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Complete undergraduate course listing:
catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/physics/#courseinventory

MU Admissions: admissions.missouri.edu



[MU Physics](#)