

Physics

Three different majors in the department provide opportunities for students to study the theoretical and applied nature of physics from within a broad liberal arts context. Students will find that the courses of study in these majors will prepare them for a variety of challenging and rewarding careers, not only in the fields of science and technology, but also in education, engineering, and architecture, as well as careers emphasizing advanced analytical skills, such as business management, law, and Christian ministry.

- The Physics major prepares a student for further study in graduate school or for a career in industry. A number of our graduates have used this route to prepare for study towards a master's degree in engineering. Others have entered doctoral studies and subsequent vocations in higher education or research. Still others have gone directly into technical jobs in business such as electronics technicians or computer specialists.
- The Physics and Mathematics major is a broad course of study in both physics and mathematics, designed especially for students interested in high school teaching. Upon completion of this program and the necessary education courses, a graduate can become certified to teach both physics and mathematics in high school.

- The Applied Physics major is designed for students interested in technical careers. Depending on their interests, students will select one of three tracks within this major. The **Engineering Physics** track is designed for students preparing for further study in engineering or completing the 3-2 engineering program with George Washington University or Virginia Tech. Students interested in combining interests in physics, electronics and computer science should complete the Physics and Technology Track. The Physical Science track will give a student a broad background in both physics and chemistry.

The department also offers students the opportunity to minor in physics, which can be a unique way of blending together an interest in traditionally non-science areas with an interest in physics. For example, students interested in careers in technical writing, patent law, philosophy, or religion can combine studies in the humanities with physics. In addition, the department offers several courses in astronomy and physics that meet the General Education needs of non-science majors.

Pre-Professional Programs

For more information on pre-professional programs visit www.bridgewater.edu



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