PHYSICS (MINOR)

Program Description

Physics is a broad discipline, ranging from fundamental scientific questions to sophisticated technological applications. At its most basic, it is the study of matter and energy and their manifold interactions. Physicists study topics as wide-ranging as the underlying nature of space and time; the origins, large-scale structure, and future evolution of the universe; the behavior of stars and galaxies; the fundamental constituents of matter; the many different patterns in which matter is organized, including superconductivity, liquid crystals, or the various forms of magnetism in solids; the workings of biological matter, whether in molecules such as DNA, or cellular structures, or the transport of matter and energy in and across cells; and many others. Basic physics research has led to myriad technological advances, which have transformed society in the 20th century through the present day; a small list includes: radio and television; computers; lasers; X-rays; magnetic resonance imaging and CAT scans; and the World Wide Web.

Physics is a hands-on discipline, and our students gain expertise not only in the classroom but also in the laboratory. They may participate in activities ranging from the writing of realistic computer modeling of fundamental physical principles to the modeling of financial activities, as well as the more traditional activities of physicists and mathematicians. Those trained in physics are found in many occupations, such as various fields of engineering, computer technology, health, environmental and earth sciences, communications, finance, and science writing. A higher degree opens the possibility of creative research in industry, or teaching and research in colleges and universities. Outstanding and highly motivated students are offered special opportunities for honors work, independent study, summer laboratory research, internships, and other enhancements. Our interdisciplinary approach and experimental work is geared to meet the current demand for scientists with well-integrated backgrounds who became the leaders in modern scientific scholarship and who pursue careers in research, education, industry, health care, business, and publishing.

Program Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS-SHU 11</td>
<td>General Physics I</td>
<td>3</td>
</tr>
<tr>
<td>or PHYS-SHU 91</td>
<td>Foundations of Physics I Honors</td>
<td></td>
</tr>
<tr>
<td>PHYS-SHU 12</td>
<td>General Physics II</td>
<td>3</td>
</tr>
<tr>
<td>or PHYS-SHU 93</td>
<td>Foundations of Physics II Honors</td>
<td></td>
</tr>
<tr>
<td>PHYS-SHU 71</td>
<td>Foundations of Physics Lab I</td>
<td>2</td>
</tr>
<tr>
<td>PHYS-SHU 94</td>
<td>Foundations of Physics Lab II</td>
<td>2</td>
</tr>
<tr>
<td>Two Physics Elective Courses (must bring total credits of the minor courses to 16 or more)</td>
<td>8</td>
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</tbody>
</table>

Total Credits 18

Policies

NYU Policies

University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).