The defining characteristic of physics is the quest for the underlying logic—the theoretical structure that unifies and explains all the different phenomena that we study experimentally. Both the experiments themselves and the theoretical work that goes on at the same time are motivated primarily by this quest. As a by-product of this quest, physicists have pioneered many of the basic ideas on which our modern technology rests. Such developments as transistors, lasers, and perhaps someday fusion energy all come directly from research in physics. Students who complete the Arts & Sciences Physics Program will earn a B.S. in Physics from the College of Arts & Sciences. There are four options for students to choose from when pursuing this degree; Applied Physics, Advanced Physics, Physics and Life Sciences, and Teaching.

**Career Areas/Job Titles:**

<table>
<thead>
<tr>
<th>Management and Industry</th>
<th>Science and Technology</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consultant</td>
<td>Medical Doctor</td>
<td>Professor</td>
</tr>
<tr>
<td>Science Patent Examiner</td>
<td>Research Scientist</td>
<td>K-12 Teacher</td>
</tr>
<tr>
<td>Communication and Media</td>
<td>Software Engineer</td>
<td>Librarian</td>
</tr>
<tr>
<td>Web Communications</td>
<td>Systems Developer and</td>
<td>Government/Politics</td>
</tr>
<tr>
<td>Specialist</td>
<td>Engineer</td>
<td>Intellectual Properties Lawyer</td>
</tr>
<tr>
<td>Web Developer</td>
<td>Design Engineer</td>
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<tr>
<td>Scientific Journalist</td>
<td>Product Engineer</td>
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<tr>
<td>Publisher</td>
<td>Nuclear Physicist</td>
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</tr>
<tr>
<td><strong>Health Professions</strong></td>
<td>Biophysicist</td>
<td></td>
</tr>
</tbody>
</table>

*Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.

**Transferable Skills:**

- Mathematic Skills
- Physics Foundation
- Computer Programming
- Building and Construction
- Technical Writing
- Experimental Design
- Data Acquisition
- Problem Solver
- Provide/Respond to Feedback
- Speaking Effectively
- Use Technology Effectively
- Written Communication
- Teamwork
- Developing Evaluation
- Strategies
- Identifying Problems
- Research Skills
- Attention to Detail
- Implementing Decisions
- Managing Time/Stress
- Organization Skills
- Prioritizing Tasks
- Creating Innovative Solutions
- Quantitative Reasoning
- Data Analysis
- Analytical/Critical Thinking
- Laboratory Skills

*This is not an extensive list of transferable skills. See larger list of skills you might develop here: [http://ccss.osu.edu](http://ccss.osu.edu)

**Professional Links:**

- Society of Physics Students: [https://physics.osu.edu/student-organizations](https://physics.osu.edu/student-organizations)
- Sigma Pi Sigma: Physics Honor Society: [http://www.physics.ohio-state.edu/sigma](http://www.physics.ohio-state.edu/sigma)
- American Institute of Physics: [http://www.aip.org/](http://www.aip.org/)