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The goal of physics and astronomy is a unified description of the properties of matter and energy. The study of matter and energy encompasses a range of phenomena, from the subnuclear to the cosmological. Physics seeks to understand the way the universe “works,” from the very small scale (quarks and neutrinos) to the human scale (materials encountered in daily life) to the very large (the structure of the cosmos). Different approaches and technologies are used in these different regimes.

Department Programs
Majors

• Physics Major, B.A. (http://catalog.unc.edu/undergraduate/programs-study/physics-major-ba)
• Physics Major, B.S. (http://catalog.unc.edu/undergraduate/programs-study/physics-major-bs)

Minors

• Astronomy Minor (http://catalog.unc.edu/undergraduate/programs-study/astronomy-minor)
• Physics Minor (p. 1)

Graduate Programs

• M.S. in Physics (http://catalog.unc.edu/graduate/schools-departments/physics-astronomy)
• Ph.D. in Physics (http://catalog.unc.edu/graduate/schools-departments/physics-astronomy)

Requirements
In addition to the program requirements listed below, students must:

• take at least nine hours of their minor course requirements at UNC–Chapel Hill
• earn a minimum of 12 hours of C or better in the minor (some minors require more)

For more information, please consult the degree requirements section of the catalog (http://catalog.unc.edu/undergraduate/general-education-curriculum-degree-requirements/#degreerequirementstext).

The minor in physics consists of five courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 118</td>
<td>Introductory Calculus-based Mechanics and Relativity</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 119</td>
<td>Introductory Calculus-based Electromagnetism and Quanta</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 281L</td>
<td>Experimental Techniques in Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>Introduction to Numerical Techniques in Physics</td>
<td>4</td>
</tr>
<tr>
<td>One additional course chosen from ASTR (numbered above 300) and PHYS (numbered above 200)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

Astronomy (ASTR) and Physics (PHYS) course descriptions (http://catalog.unc.edu/undergraduate/departments/physics-astronomy/#coursestext).

See the program page here (http://catalog.unc.edu/undergraduate/programs-study/physics-major-ba/#opportunitiestext) for special opportunities.