Everything around you is influenced or governed by physics — the study of matter, energy, and their interactions with one another. Physics seeks to understand the way the universe “works,” from the smallest neutrinos to the structure of the cosmos. It is the foundation of all other natural sciences, including chemistry, biology, oceanography, geography, and radiography.

The Department of Physics and Astronomy offers eight degree tracks:

- B.A. Physics
  - Physics
  - Astronomy
  - Computational Physics
  - Energy
  - Medical and Biological Physics
  - Quantitative Finance
- B.S. Physics
  - Physics
  - Astrophysics

Consider a B.A. degree if you’re interested in physics but want to apply your training toward a wider variety of career paths after graduation. Students who completed this program have launched careers as lab researchers, application engineers, data scientists, and financial analysts, among other occupations. Some have also pursued an advanced degree in physics, medical physics, business, law, or computer science.

Consider a B.S. degree if you intend to pursue graduate study in physics, astronomy, or a related field, or a career practicing physics.

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

- take at least nine hours of their minor “core” requirements at UNC–Chapel Hill
- earn a minimum cumulative GPA of 2.000 in the minor core requirements. Some programs may require higher standards for minor or specific courses.

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

The minor in physics consists of five courses:

<table>
<thead>
<tr>
<th>Code</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>Three additional courses chosen from ASTR 202, ASTR (numbered above 300), and PHYHS (numbered above 200). Each course must be 3 credit hours or more.</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

FY-Launch class sections may be available. A FY-Launch section fulfills the same requirements as a standard section of that course, but also fulfills the FY-SEMINAR/FY-LAUNCH First-Year Foundations requirement. Students can search for FY-Launch sections in ConnectCarolina using the FY-LAUNCH attribute.

1 Prerequisite, MATH 231; pre- or corequisite, MATH 232; permission of the instructor for students lacking the prerequisites.
2 Prerequisites, MATH 232 and PHYS 118; pre- or corequisite, MATH 233; permission of the instructor for students lacking the prerequisites.

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.

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/)

Contact Information
Department of Physics and Astronomy
Visit Program Website (http://physics.unc.edu)
Phillips Hall, CB# 3255
(919) 962-2078

Chair
Frank Tsui
ftsui@physics.unc.edu

Academic Affairs Coordinator
Maggie Jensen
mejensen@email.unc.edu

Director of Undergraduate Studies
Tamara Branca
rbranca@unc.edu

Physics Advisor (Students with Last Names Beginning with A–G)
Rene Lopez
rln@physics.unc.edu
Physics Advisor (Students with Last Names Beginning with H–I, and Astrophysics and Astronomy Majors and Minors)
Adrienne Erickcek
erickcek@physics.unc.edu

Physics Advisor (Students with Last Names Beginning with J–P)
Jennifer Weinberg-Wolf
jweinber@physics.unc.edu

Physics Advisor (Students with Last Names Beginning with Q–Z, and Quantitative Finance Majors)
Stefan Jeglinski
jeglin@physics.unc.edu