ASTRONOMY MINOR

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

Christian Iliadis, Chair

Jhon T. Cimmino, Academic Affairs Coordinator, Physics and Astronomy
jhonc@email.unc.edu

Frank Tsui, Director of Undergraduate Studies
ftsui@physics.unc.edu

Lu-Chang Qin, Physics Advisor (students with last names beginning with
A–D)
lcqin@email.unc.edu

Dan Reichart, Physics Advisor (students with last names beginning with
E–K)
reichart@email.unc.edu

Jennifer Weinberg-Wolf, Physics Advisor (students with last names
beginning with L–R)
jweinber@physics.unc.edu

Reyco Henning, Physics Advisor (students with last names beginning
with S–Z)
rhenning@unc.edu

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

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 astronomy consists of five courses:

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 101</td>
<td>Introduction to Astronomy: The Solar System H</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 101L</td>
<td>Introduction to Astronomy Laboratory: Our Place in</td>
<td>1</td>
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<tr>
<td></td>
<td>Space</td>
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<tr>
<td>or ASTR 111L</td>
<td>Educational Research in Radio Astronomy</td>
<td></td>
</tr>
<tr>
<td>ASTR 202</td>
<td>Introduction to Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 118</td>
<td>Introductory Calculus-based Mechanics and</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Relativity</td>
<td></td>
</tr>
<tr>
<td>PHYS 119</td>
<td>Introductory Calculus-based Electromagnetism</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>and Quanta</td>
<td></td>
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</tbody>
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Total Hours 15

H Honors version available. An honors course fulfills the same
requirements as the nonhonors version of that course. Enrollment
and GPA restrictions may apply.

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