

**College of Science  
Department of Physics  
Bachelor of Science in Physics  
Minor: ASTRONOMY  
For students graduating in calendar year 2017**

**I. Required courses (16 credit hours)**

PHYS 1055 Introduction to Astronomy  
 PHYS 1056 Introduction to Astronomy  
 PHYS 1155 Astronomy Laboratory  
 PHYS 1156 Astronomy Laboratory  
 PHYS 3154 Observational Astrophysics  
 PHYS 3655 Introduction to Astrophysics I  
 PHYS 3656 Introduction to Astrophysics II

3   
 3   
 1   
 1   
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 3

**3 credit hours from the list below:**

PHYS 3355 Intermediate Mechanics	3 <input type="checkbox"/>
PHYS 3405 Intermediate Electricity and Magnetism	3 <input type="checkbox"/>
PHYS 4504 Introduction to Nuclear and Particle Physics	3 <input type="checkbox"/>
PHYS 4614 Optics	3 <input type="checkbox"/>
PHYS 4654 Modern Cosmology	3 <input type="checkbox"/>
PHYS 4674 Introduction to General Relativity	3 <input type="checkbox"/>
PHYS 4714 Introduction to Biophysics	3 <input type="checkbox"/>
BIOL 2104 Cell and Molecular Biology	3 <input type="checkbox"/>
BIOL 2704 Evolutionary Biology	3 <input type="checkbox"/>
GEOS 3114 Introduction to Meteorology	3 <input type="checkbox"/>
GEOS 4154 Earthquake Seismology	3 <input type="checkbox"/>
GEOS 4714 Volcanoes and Volcanic Processes	3 <input type="checkbox"/>
AOE 4134 Astromechanics	3 <input type="checkbox"/>
ECE 4114 Antennas	3 <input type="checkbox"/>
ECE 4124 Radio Wave Propagation	3 <input type="checkbox"/>
ECE 4144 Introduction to Optical Information Processing	3 <input type="checkbox"/>
ECE 4604 Applied Spectral Analysis and Filtering	3 <input type="checkbox"/>
ESM 3016 Fluid Mechanics II	3 <input type="checkbox"/>
ESM 3024 Introduction to Fluid Mechanics	3 <input type="checkbox"/>
ESM 4524 Introduction to Wave Motion	3 <input type="checkbox"/>

**II. Prerequisites and/or Corequisites**

For the courses listed above, prerequisites and/or corequisites may apply: see your advisor.

**III. Minimum GPA**

For the courses attempted by the student for this minor, the student's GPA must be 2.0 or higher.