

**College of Science**  
**Department of Physics**  
**Bachelor of Science in Physics**  
**Minor: ASTRONOMY**  
**For students graduating in calendar year 2014**

**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
- 2
- 3
- 3

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

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

**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.