

College of Science Department of Physics Minor: ASTRONOMY For students graduating in calendar year 2019

The Minor in Astronomy requires the completion of 19 credit hours.

Required courses (16 credit nours)			
PHYS 1055 Introduction to Astronomy	3 🔲	3 credit hours from the list below:	
PHYS 1056 Introduction to Astronomy	3	PHYS 3355 Intermediate Mechanics	3
PHYS 1155 Astronomy Laboratory	1 🔲	PHYS 3405 Intermediate Electricity and Magnetism	3
PHYS 1156 Astronomy Laboratory	1	PHYS 4504 Introduction to Nuclear and Particle Physics	3 🔲
PHYS 3154 Observational Astrophysics	2 🔲	PHYS 4574 Nanotechnology	3
PHYS 3655 Introduction to Astrophysics I	3 🔲	PHYS 4614 Optics	3
PHYS 3656 Introduction to Astrophysics II	3 🔲	PHYS 4654 Modern Cosmology	3
		PHYS 4674 Introduction to General Relativity	3
		PHYS 4714 Introduction to Biophysics	3
		PHYS 4755 Intro to Computational Physics	3
		PHYS 4774 Intro to Physics of Galaxies	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

Total 19 credit hours.

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.

IV. Accepted Substitutions

PHYS 3355: AOE 4134 (Astromechanics), or ESM 3124 (Dynamics II Analytical and 3-D Motion). PHYS 3405: ECE 3105 (Electromagnetic Fields).