

# ASTRONOMY MINOR

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The Department of Physics and Astronomy offers a minor in astronomy to qualified students. The requirement for a minor consists of the following:

Code	Title	Credits
PHY 2170 or PHY 2130	University Physics I for Scientists and Engineers <sup>1</sup> Physics for the Life Sciences I	4
PHY 2171 or PHY 2131	University Physics I Experimental Laboratory <sup>1</sup> Physics for the Life Sciences Laboratory	1
PHY 2180 or PHY 2140	University Physics II for Scientists and Engineers <sup>1</sup> Physics for the Life Sciences II	4
PHY 2181 or PHY 2141	University Physics II Experimental Laboratory <sup>1</sup> Physics for the Life Sciences Laboratory	1
PHY 3300	Introductory Modern Physics <sup>3</sup>	3
PHY 3310	Introductory Modern Physics Laboratory	2
Select three courses from the following:		9
AST 4100	Astronomical Techniques <sup>2</sup>	
AST 4300	Planetary Astronomy and Space Science	
AST 5010	Astrophysics and Stellar Astronomy	
AST 5100	Galaxies and the Universe	
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> If students take PHY 2130 and PHY 2140 then they must earn a cumulative 3.0 g.p.a. in those courses to be able to take PHY 3300.

<sup>2</sup> If students choose to take AST 4100 as one of the elective upper-level astronomy classes, then, AST 4200 is a co-requisite.

<sup>3</sup> MAT 2010 and MAT 2020 are prerequisites for this course.

Many science and/or engineering majors already take the required calculus and basic physics sequence as part of their studies, however, non-science majors are unlikely to be able to complete the minor in under 24 credits. Students should consult the departmental Undergraduate Academic Advisor for approval of the minor prior to undertaking the program.