

# ASTRONOMY, MINOR

## Admission into the Minor

Students are expected to formally declare a minor by completing the Change of Major/Minor Application online under the Student tab of myBama.

Code and Title	Hours
<b>Minor Courses</b>	
AY 203 Observational Astronomy	2
AY 204 Solar System Astronomy	3
AY 206 Astron Beyond Solar Syst	3
Credit Hours Subtotal:	8
<b>Electives</b>	
Select six hours of AY electives 300 or 400 level and/or one of the following:	6
PH 301 Mechanics I	
PH 302 Intermediate Mechanics	
Credit Hours Subtotal:	6
<b>Ancillary Courses</b>	
Grades in ancillary courses are not computed into the minor GPA. The minor in astronomy requires the successful completion of the following courses outside the minor:	
Select one of the following:	4
PH 105 General Physics W/Calc I <sup>1</sup>	
PH 125 Honors Gen Ph W/Calculus	
PH 101 General Physics I <sup>1</sup>	
Select one of the following:	4
PH 106 General Physics W/Calc II <sup>1</sup>	
PH 126 Honors Gen Ph W/Calculus II	
PH 102 General Physics II <sup>1</sup>	
PH 253 Intro Modern Physics	4
& PH 255 and Modern Physics Lab	
Credit Hours Subtotal:	12
<b>Total Hours</b>	<b>26</b>

### Footnotes

<sup>1</sup> General physics with calculus (PH 105 General Physics W/Calc I and PH 106 General Physics W/Calc II, or honors PH 125 Honors Gen Ph W/Calculus and PH 126 Honors Gen Ph W/Calculus II) is the preferred preparation for advanced physics courses. However, general physics (PH 101 General Physics I and PH 102 General Physics II) can substitute for students who must begin the minor courses before taking calculus.

## Grade Point Average

A 2.0 grade point average in the minor is required. Please see the Grades and Grade Points section of this catalog for an explanation on grade point average calculations.

## Upper-level Residency

A minimum of six hours of 300- and 400-level courses in the minor must be earned on this campus.

## Additional Minor Requirements

Students majoring in physics may not apply the same physics courses toward both the physics major and the astronomy minor. They will still need 14 hours in the minor. Students are responsible for ensuring that they have met all University, College, major and minor requirements. However, each student must meet with an adviser in the major department for academic planning and to be approved for registration each semester. College advisers are also available for additional assistance with minor, College and University requirements.

## Prerequisites

In addition to stated prerequisites, physics courses numbered 253-354 have as prerequisites PH 101 General Physics I, PH 105 General Physics W/Calc I, or PH 125 Honors Gen Ph W/Calculus, **AND** PH 102 General Physics II, PH 106 General Physics W/Calc II or PH 126 Honors Gen Ph W/Calculus II. Physics courses numbered 400-499 have as prerequisites 14 hours of physics or 11 hours of physics and senior standing in addition to stated prerequisites.