

## Minor in Physics Advising Sheet

The Minor in Physics has 32-credits of required coursework. However, many of these credits are either mathematics prerequisites, which probably overlap with your major requirements, or may be taken to satisfy a general education requirement.

### *Generic Plan*

Course #	Course Name	Planned Semester	Notes:
MAT 161	Calculus I		Satisfies Mathematics General Ed.
PHY 170 or PHY 130	Physics I  General Physics I		
MAT 162	Calculus II		
PHY 180 or PHY 140	Physics II  General Physics II		
MAT 261	Calculus III		
PHY 240	Modern Physics		
PHY 2XX or PHY3XX			200-level or 300-level Physics course. PHY 205 is suggested since it also fulfills 3 units of SE and I credit in the general education program.
PHY 3XX			
PHY 3XX			

Note: Some of our upper-level offerings may fulfill speaking emphasis SE, writing emphasis W, or Interdisciplinary I general education requirements. Please talk with your minor advisor.

### *Astronomy Focus*

<b>Course #</b>	<b>Course Name</b>	<b>Planned Semester</b>	<b>Notes:</b>
MAT 161	Calculus I		Satisfies Mathematics General Ed.
PHY 170 or PHY 130	Physics I  General Physics I		
MAT 162	Calculus II		
PHY 180 or PHY 140	Physics II  General Physics II		
MAT 261	Calculus III		
PHY 240	Modern Physics		
PHY 300	Mechanics		
PHY 350 or PHY 275	Thermodynamics or Computational Physics		Thermodynamics is useful to understand how stars work, computational physics is useful if you are interested in “big data” astrophysics.
PHY 390	Astrophysics		

***Biophysics Focus***

<b>Course #</b>	<b>Course Name</b>	<b>Planned Semester</b>	<b>Notes:</b>
MAT 161	Calculus I		Satisfies Mathematics General Ed.
PHY 170 or PHY 130	Physics I General Physics I		
MAT 162	Calculus II		
PHY 180 or PHY 140	Physics II General Physics II		
MAT 261	Calculus III		
PHY 240	Modern Physics		
PHY 205	Cell and Molecular Biophysics		Fulfills 3 units of SE and 3 units of I in the general education program.
PHY 350	Thermodynamics		
PHY 3XX			Electronics lab suggested.

*Focus Appropriate for Applied Mathematicians*

Course #	Course Name	Planned Semester	Notes:
MAT 161	Calculus I		Satisfies Mathematics General Ed.
PHY 170 or PHY 130	Physics I General Physics I		
MAT 162	Calculus II		
PHY 180 or PHY 140	Physics II General Physics II		
MAT 261	Calculus III		
PHY 240	Modern Physics		
MAT 315	Ordinary Differential Equations and Linear Algebra		<p><b>This is a prerequisite for PHY 370, but as a math major this is not an extra course.</b></p> <p>Alternatively, students may take Linear Algebra and Ordinary Differential Equations as Standalone courses.</p>
PHY 275	Computational		
PHY 300	Mechanics		
PHY 370	Mathematical Physics		