

# PHYSICS MINOR

A minor in physics is a great option for students in any STEM field that is interested a deeper understanding of the physical principles that form the basis of chemistry, biology, astronomy, and earth sciences. It is also a good choice for students interested in pursuing advanced degrees in any of those fields.

## ***Regulations Governing Minor Course Work***

1. There shall be a minimum of 18.0 credit hours with a minimum Millersville QPA of 2.0.
2. Only one course which counts toward your major may be counted toward your minor.
3. Courses that count toward a minor are also eligible to be used to satisfy the current University-wide General Education requirements subject to normal distribution requirements.
4. At least two courses should be at the upper-division level (300-400). Exceptions may be requested upon evidence of program depth.
5. No course needed for the minor may be taken Pass-Fail.
6. One-half or more of the work required for the minor must be completed at Millersville University.
7. No student may minor in his or her major.

## **Minor in Physics**

Code	Title	Hours
Completion of the Calculus sequence (MATH 161, 211, 311) is a prerequisite for the minor in Physics.		
PHYS 231	Physics 1 with Calculus	5
PHYS 232	Physics 2 with Calculus	5
PHYS 233	Wave-Particle Theory	3
PHYS 334	Macroscopic Physics	3
Physics Elective Course - Choose 1 of the following:		2-3
PHYS 311	Mechanics 1	
PHYS 317	Introduction to Astronomy	
PHYS 321	Electromagnetic Fields 1	
PHYS 331	Fundamentals of Optics	
PHYS 395	Techniques of Mathematical Physics	
PHYS 431	Solid State Physics	
PHYS 435	Statistical Mechanics	
PHYS 471	Quantum Mechanics	
<b>Total Hours</b>		<b>18-19</b>