

# PHYSICS, MINOR

This minor may only be completed by students admitted to the Elementary Education (<https://guide.wisc.edu/undergraduate/education/curriculum-instruction/elementary-education-bse/>) or the Elementary Education and Special Education (<https://guide.wisc.edu/undergraduate/education/rehabilitation-psychology-special-education/elementary-education-special-education-bse/>) programs. A minor is not required to complete either program.

Minors provide a depth of study in a particular area of interest and also inform classroom instruction. The completion of a minor is required to teach middle school in some states and may benefit students particularly interested in teaching at this level.

The Department of Physics (<https://www.physics.wisc.edu/>) is housed in the College of Letters & Science. Students may wish to consult with an undergraduate advisor (<https://www.physics.wisc.edu/undergraduate/contact-us/>) in the physics department to discuss course selection and other issues related to this field of study.

Upon completion, the subject area of the minor will be posted on the UW–Madison transcript. Students will not receive an additional certification or license in the subject area. The Wisconsin Department of Public Instruction does not offer content licenses in association with the Elementary Education or Special Education teaching licenses.

## HOW TO GET IN

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This minor may only be declared by students completing the Elementary Education or the Elementary Education and Special Education programs. To declare the minor, contact your academic advisor in Education Student Services any time after program admission.

## REQUIREMENTS

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Complete a minimum of 22 credits. A minimum cumulative grade point average of 2.75 is required, based on all physics minor coursework taken on the UW–Madison campus.

### INTRODUCTORY REQUIREMENTS

Code	Title	Credits
<b>Select one of the following First Introductory Courses:</b>		<b>5-6</b>
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
PHYSICS 247	A Modern Introduction to Physics <sup>1</sup>	
E M A 201 & E M A 202	Statics and Dynamics	
<b>Select one of the following Second Introductory Courses:</b>		<b>5</b>
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
PHYSICS 248	A Modern Introduction to Physics	

### Select one of the following Third Introductory Courses:

PHYSICS 249	A Modern Introduction to Physics
PHYSICS 205	Modern Physics for Engineers
PHYSICS/ E C E 235	Introduction to Solid State Electronics
PHYSICS 241	Introduction to Modern Physics

<sup>1</sup> Any combination of courses can be used to satisfy the three introductory course requirements, but students may not transfer into the PHYSICS 247, PHYSICS 248, PHYSICS 249 sequence from another introductory sequence.

### ADDITIONAL COURSE REQUIREMENTS

Code	Title	Credits
PHYSICS 307	Intermediate Laboratory-Mechanics and Modern Physics	2
PHYSICS 311	Mechanics	3
PHYSICS 321	Electric Circuits and Electronics	4
Select physics electives, if necessary, to total 22 credits		