

The Ohio State University  
College of Arts and Sciences

Physics Minor Program (PHYSICS-MN)

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### Contact Information

For information about the physics minor, or to enroll in the program, contact Lindsey Thaler, Director of Undergraduate Studies, at 614-247-1635 or [thaler.21@osu.edu](mailto:thaler.21@osu.edu)

### About the Physics Minor

Students whose career goals lie in directions other than physics have often expressed interest in physics and a wish for greater exposure than what can be provided in the introductory physics sequence. The physics minor program allows students to gain additional exposure to physics topics such as mechanics, electromagnetism, optics, quantum mechanics, or nanotechnology. The physics minor program requires a minimum of 14 semester credit hours beyond the 10 credit hour introductory calculus based physics sequence (Physics 1250-1251) along with the appropriate number of supporting math courses. Some of the courses may have additional prerequisites.

### Physics Minor Requirements

#### Pre-requisites

Physics 1250 – Introductory Physics I (5 hours)  
Physics 1251 – Introductory Physics II (5 hours)

#### Required Course

Physics 2300 – Intermediate Mechanics I (4 hours)

#### Elective Lectures (choose two)

Physics 2301 – Intermediate Mechanics II  
Physics 3470 – Optics  
Physics 5261 – Environmental Soil Physics  
Physics 5300 – Theoretical Physics  
Physics 5400 – Electromagnetism  
Physics 5400H – Honors Electromagnetism I  
Physics 5401H – Honors Electromagnetism II  
Physics 5500 – Quantum Mechanics  
Physics 5501 – Quantum Mechanics II  
Physics 5500H – Honors Quantum Mechanics I  
Physics 5501H – Honors Quantum Mechanics II  
Physics 5600 – Statistical Physics

#### Elective Labs (choose one)

Physics 3700 – Data Analysis Lab  
Physics 4700 – Electronics Lab  
Physics 5810 – Computational Physics

### Physics minor program guidelines

Credit hours required A minimum of 14 credit hrs. 1000 level courses shall not be counted in the minor.

Transfer and EM credit hours allowed A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)

- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of course work graded Satisfactory/Unsatisfactory may count toward the minor.

X193 credits No more than 3 credit hours.

Minor approval A student can work with his or her academic advisor to enroll in the physics minor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school advisor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by the Department of Physics.

College of Arts and Sciences  
Curriculum and Assessment Services  
306 Dulles Hall, 230 Annie & John Glenn Ave.  
<http://artsandsciences.osu.edu>

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Update 7/3/13 DH  
Rev appr CAA 7/29/15  
Updated 8/1/19 DH  
Updated 6-9-21B DH  
Updated 07-12-2023 RLS