

# PHYSICS MAJOR WITH TEACHING, BACHELOR OF SCIENCE

## Requirements

Physics Major with Teaching, Bachelor of Science requirements are 48 hours, including:

Code	Title	Credits
<b>Major Requirements</b>		
PHYS 231	Introductory Physics I	4
PHYS 232	Introductory Physics II	4
PHYS 294	Physics for the Future	2
PHYS 331	Spacetime and Quanta	4
PHYS 334	Computer Modeling of Physical Systems	2
PHYS 341	Analytical Mechanics	4
PHYS 351	Analog Electronics	2
PHYS 494	Senior Seminar	2
Select one of the following:		4
PHYS 342	Electromagnetic Theory	
PHYS 344	Quantum Mechanics	
PHYS 359	Thermodynamics	
<b>Supporting Courses</b>		
ASTR 305	Astronomy	4
or PHYS 305	Dakota Skies: Astronomy and Atmospheric Science in the Black Hills	
MATH 235	Calculus I	4
MATH 236	Calculus II	4
MATH 237	Calculus III	4
MATH 333	Differential Equations	4
Education courses as specified by the Education Department		
<b>Total Credits</b>		<b>48</b>

Students opting for this program should spend at least one year as a teaching assistant in the Physics Department. Completion of these requirements will lead to teacher licensure. A Master of Arts in Teaching (MAT) program is also available with a Physics major. A combined Bachelor's/MAT program may be completed in five years and one summer. See the Education (<https://catalog.wheaton.edu/undergraduate/arts-sciences/education/>) section in this catalog.

Majoring in Physics with Teaching requires that the student complete a second major in Secondary Education. If a student chooses to drop the Secondary Education major, they must drop the Physics with Teaching major and choose a standalone major in the content area. Students who wish to pursue the MAT should declare the BS in Physics and the pre-licensure secondary education certificate.

CHEM 231 General Chemistry I is recommended but not required.