

PHYSICS MINOR

Minor Code: PHY

Physics Department

SAMC 162

(716) 878-6726

physics.buffalostate.edu/ (<https://physics.buffalostate.edu/>)

Physics helps students understand the world; it is the most basic and fundamental science. In addition, physics provides the basis of many other sciences, including chemistry, oceanography, seismology, and astronomy (and it can be applied to biology or medical science). The physics minor provides an excellent way for mathematics-minded students to enhance their undergraduate experience.

Program Requirements

Code	Title	Credit Hours
Required Courses (19 credit hours)		
PHY 111	UNIVERSITY PHYSICS I	5
PHY 112	UNIVERSITY PHYSICS II	5
PHY 213	UNIVERSITY PHYSICS III	3
PHY 305	MODERN PHYSICS I	3
PHY 306	MODERN PHYSICS II	3
Electives (3 credit hours)		
Select from the following:		3
PHY 308	OPTICS	
PHY 310	COMPUTATIONAL PHYSICS LABORATORY	
PHY 315	HEAT AND THERMODYNAMICS	
PHY 320	INTRODUCTION TO THEORETICAL PHYSICS	
PHY 324	ELECTRIC CIRCUIT ANALYSIS	
PHY 410	ADVANCED PHYSICS LABORATORY	
PHY 425	CLASSICAL MECHANICS	
PHY 440	ELECTRICITY AND MAGNETISM I	
PHY 441	ELECTRICITY AND MAGNETISM II	
PHY 495	SPECIAL PROJECT	
Prerequisites		
MAT 161	CALCULUS I	
MAT 162	CALCULUS II	
MAT 163	USING TECHNOLOGY TO EXPLORE CALCULUS I	
MAT 164	USING TECHNOLOGY TO EXPLORE CALCULUS II	

MAT 263	CALCULUS III	
MAT 264	USING TECHNOLOGY TO EXPLORE CALCULUS III	
Total Credit Hours		22