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

MAT 162 CALCULUS II

Code	Title	Credit Hours	
Required Courses (19-21 credit hours)			
PHY 111	UNIVERSITY PHYSICS I	5	
or PHY 107	GENERAL PHYSICS I		
PHY 112	UNIVERSITY PHYSICS II	4-5	
or PHY 108	GENERAL PHYSICS II		
PHY 213	UNIVERSITY PHYSICS III	3	
PHY 214	OPTICS AND HEAT	1	
	LABORATORY		
PHY 305	MODERN PHYSICS I	3	
PHY 307	MODERN PHYSICS LABORATORY	2	
Electives (3 credit hours)			
Select from the following: 3			
PHY 306	MODERN PHYSICS II		
PHY 308	OPTICS		
PHY 310	COMPUTATIONAL PHYSICS LABORATORY		
PHY 315	HEAT AND THERMODYNAMICS		
PHY 320	INTRODUCTION TO THEORETICAL PHYSICS		
PHY 323	STATICS		
PHY 324	ELECTRIC CIRCUIT ANALYSIS		
PHY 410	ADVANCED PHYSICS LABORATORY		
PHY 495	SPECIAL PROJECT		
Required credit hours outside the minor (16 credit hours)			
MAT 161	CALCULUS I		
or MAT 1	or MAT 1. APPLIED CALCULUS I		

or MAT 12APPLIED CALCULUS II

CHE 111	FUNDAMENTALS OF
& CHE 11	3 CHEMISTRY I
	and LABORATORY FOR
	FUNDAMENTALS OF
	CHEMISTRY I
CHE 112	FUNDAMENTALS OF
& CHE 11	4 CHEMISTRY II
	and LABORATORY FOR
	FUNDAMENTALS OF
	CHEMISTRY II

Total Credit Hours 19-21