

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE: BSE	MAJOR REQUIREMENTS FOR A BSE DEGREE IN PHYSICS
MAJOR: PHYS	Total credit hours required: 125.0 minimum
OPTION:	

REQUIREMENTS AND POLICIES FOR THE BSE PHYSICS MAJOR

A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Physics major by the Office of Admissions upon admission to the University.
2. Admission into the Physics major from other departments is upon approval of the chairperson of the Department.
3. Non-degree and continuing education students must be admitted to the Physics major by the Office of Admissions.

B. Policies for Retention in the Major

1. University requirements for retention.

C. Policies for Completion of the Major

1. Completion of all University curricular requirements.
2. Students majoring in Physics are required to attain a C- or better in MATH 161 - 211 and PHYS 231 - 232 before taking courses which have these courses as prerequisites.
3. As of Fall 2005, BSE majors are not required to complete the G4 Perspectives (P) requirement. Students who declared or were admitted to the BSE Physics program before Fall 2005 are required to complete the G4 Perspective (P) requirement.

D. Admission to Advanced Professional Studies and Certification (Education Majors)

All students enrolled in teacher preparation programs must be admitted to Advanced Professional Studies and meet Pennsylvania State requirements and university requirements prior to being enrolled in their initial Advanced Professional Studies course. Students must meet additional Pennsylvania State requirements in order to be certified. A listing of Advanced Professional Studies courses and requirements is available in each department office, the Early Field Experience office, and on the Early Field Experience website.

Note to the student: *This form is provided as a guide. It is your responsibility to consult regularly with your adviser to be aware of changes and curriculum details which are not incorporated on this form.*

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BSE PHYSICS**

Option:

Major Field Requirements: **36.0 - 37.0 credits**

Other Requirements: **56.0 credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course No.	Short Title	C.H.	Grade
REQUIRED PHYSICS COURSES (33.0 credits)				REQUIRED RELATED (23.0 credits)			
PHYS 231	Physics I with Calculus	5.0	_____	Mathematics (15.0 credits)			
PHYS 232	Physics II with Calculus	5.0	_____	MATH 161	Calculus I	4.0	_____
PHYS 233	Modern Theory Wave/Particles	3.0	_____	MATH 211	Calculus II	4.0	_____
PHYS 266	Electronics	3.0	_____	MATH 311	Calculus III	4.0	_____
PHYS 311	Mechanics I	3.0	_____	MATH 365	Ord Diff Equation	3.0	_____
PHYS 321	Electromagnetic Fields I	3.0	_____	Chemistry (8.0 credits)			
PHYS 334	Macro Phenomena/Thermodynamics	3.0	_____	CHEM 111	Intro Chemistry I	4.0	_____
PHYS 335	Quantum Sys/Stat	3.0	_____	CHEM 112	Intro Chemistry II	4.0	_____
PHYS 351	Intermediate Lab I	1.0	_____	General Electives (as necessary)			
PHYS 352	Intermediate Lab II	1.0	_____	_____	_____	_____	_____
PHYS 492	Research & Seminar	2.0	_____	_____	_____	_____	_____
PHYS 498	Ind Study/Research	1.0	_____	_____	_____	_____	_____
PHYSICS ELECTIVES (3.0 - 4.0 credits)				_____	_____	_____	_____
PHYS 317	Intro to Astronomy --- or ---	3.0	_____	_____	_____	_____	_____
ESCI 241	Meteorology	4.0	_____	_____	_____	_____	_____
PROFESSIONAL EDUCATION (33.0 credits)				_____	_____	_____	_____
EDFN 211	Found Mod Ed	3.0	_____	_____	_____	_____	_____
EDFN 241	Psyc Found Teach	3.0	_____	_____	_____	_____	_____
EDFN 330	Instruct. Techn. Des.	3.0	_____	_____	_____	_____	_____
EDSE 321	Issues in Sec. Educ.	3.0	_____	_____	_____	_____	_____
EDSE 435	Teaching Science	3.0	_____	_____	_____	_____	_____
EDSE 340	Content Area Literacy	3.0	_____	_____	_____	_____	_____
SPED 346	Sec Students w/Dis	3.0	_____	_____	_____	_____	_____
EDSE 471	Differentiating Instruct	3.0	_____	_____	_____	_____	_____
EDSE 461	Student Teaching	9.0	_____	_____	_____	_____	_____