

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE: BS	MAJOR REQUIREMENTS FOR A BS DEGREE IN PHYSICS
MAJOR: PHYS	Total credit hours required: 120.0 minimum
OPTION:	

REQUIREMENTS AND POLICIES FOR THE BS 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.

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: **BS PHYS**

Option:

Major Field Requirements: **48.0 credits**

Other Requirements: **30.0 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 (42.0 credits)				REQUIRED RELATED (30.0 credits)			
PHYS 231	Physics I with Calculus	5.0	_____	Chemistry (8.0 credits)			
PHYS 232	Physics II with Calculus	5.0	_____	CHEM 111	Intro Chemistry I	4.0	_____
PHYS 233	Modern Theory Wave/Particles	3.0	_____	CHEM 112	Intro Chemistry II	4.0	_____
PHYS 266	Electronics	3.0	_____	Mathematics (19.0 credits)			
PHYS 311	Mechanics I	3.0	_____	MATH 161	Calculus I	4.0	_____
PHYS 321	Electromagnetic Fields I	3.0	_____	MATH 211	Calculus II	4.0	_____
PHYS 331	Fundamentals of Optics	2.0	_____	MATH 311	Calculus III	4.0	_____
PHYS 334	Macro Phenomena/Thermodynamics	3.0	_____	MATH 322	Linear Algebra I	4.0	_____
PHYS 335	Quantum Sys/Stat	3.0	_____	MATH 365	Ord Diff Equations	3.0	_____
PHYS 351	Intermediate Lab I	1.0	_____	Mathematics Electives (3.0 credits)			
PHYS 352	Intermediate Lab II	1.0	_____	Choose one course in Mathematics, 200 level or higher.			
PHYS 395	Technique Math Physics	3.0	_____	MATH _____	_____	_____	_____
PHYS 451	Advanced Lab I	1.0	_____	General Electives (as necessary)			
PHYS 492	Research & Seminar	2.0	_____	_____	_____	_____	_____
PHYS 471	Quantum Mechanics	3.0	_____	_____	_____	_____	_____
PHYS 498	Ind Study/Research	1.0	_____	_____	_____	_____	_____
PHYSICS ELECTIVES (6.0 credits)				General Electives (as necessary)			
Choose one of the following:				_____	_____	_____	_____
PHYS 312	Mechanics II	3.0	_____	_____	_____	_____	_____
PHYS 322	Electromagnetic Fields II	3.0	_____	_____	_____	_____	_____
Choose one of the following:				_____	_____	_____	_____
PHYS 431	Solid State	3.0	_____	_____	_____	_____	_____
PHYS 435	Statistical Mechanics	3.0	_____	_____	_____	_____	_____
PHYS 462	Advanced Electronics	3.0	_____	_____	_____	_____	_____
PHYS 493	Topics: Astronomy & Astrophysics	3.0	_____	_____	_____	_____	_____
PHYS 494	Topics: Classical Physics	3.0	_____	_____	_____	_____	_____
PHYS 495	Topics: Theoretical Physics	3.0	_____	_____	_____	_____	_____
PHYS 496	Topics: Applied Physics	3.0	_____	_____	_____	_____	_____
PHYS 497	Topics: Modern Physics	3.0	_____	_____	_____	_____	_____
PHYS 498	Ind Study/Research	_____	_____	_____	_____	_____	_____