

MILLERSVILLE UNIVERSITY

Student Name: _____ Student I.D.# _____

DEGREE: BA	MAJOR REQUIREMENTS FOR A BA DEGREE IN
MAJOR: PHYS	PHYSICS: COOPERATIVE ENGINEERING
OPTION: COEN	Total credit hours required: 120.0 minimum

REQUIREMENTS AND POLICIES FOR THE BA 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. Twenty-five credit hours will be applied upon certification that the degree of B.S. in Engineering has been awarded.
3. The Bachelor of Arts degree with a major in Physics will be awarded to the student who:
 - a. satisfactorily completes 95.00 credit hours at Millersville University; and
 - b. is awarded a Bachelor of Science in Engineering by an accredited cooperating institution. (Specific requirements may vary depending on the field of engineering and the engineering school).
4. 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: **BA PHYSICS**
 Option: **COOPERATIVE ENGINEERING**
 Major Field Requirements: **32.0 credits**
 Other Requirements: **23.0 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 (32.0 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 Equations	3.0	_____
PHYS 321	Electromagnetic Fields I	3.0	_____	Chemistry (8.0 credits)			
PHYS 334	Macro/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 492	Research & Seminar	2.0	_____	_____	_____	_____	_____
PHYS 498	Ind Study/Research	1.0	_____	_____	_____	_____	_____
				_____	_____	_____	_____
				_____	_____	_____	_____
				_____	_____	_____	_____
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