

Clarion University of Pennsylvania
College of Arts and Sciences

Name: _____
 SID: _____
 Major: _____
 Major Advisor: _____
 Date of Entry into Minor: _____

Requirements for the Minor In Physics
25 Credits

1. Required Courses (16 credits)

MATH 270	Calculus I	4	_____	
MATH 271	Calculus II	4	_____	
{	PH 251	General Physics 1	4	_____
	PH 252	General Physics 2	4	_____
OR				
{	PH 258	Introductory Physics 1*	3	_____
	PH 259	Introductory Physics 2**	3	_____
	PH 268	Introductory Physics Laboratory 1	1	_____
	PH 269	Introductory Physics Laboratory 2	1	_____

2. Elective Courses – (Choice of at least 3 upper level courses: 9+ credits)

PH 301	Astrophysics I*	3	_____
PH 302	Astrophysics II**	3	_____
PH 351	Mechanics & Dynamics****	3	_____
PH 352	Electricity & Magnetism****	3	_____
PH 353	Modern Physics 1**	3	_____
PH 354	Optics***	3	_____
PH 355	Modern Physics 2***	3	_____
PH 356	Thermodynamics****	3	_____
PH 357	Condensed Matter Physics****	3	_____
PH 358	Condensed Matter Physics II****	3	_____
PH 371	Experimental Physics 1 ^A	3	_____
PH 372	Experimental Physics 2 ^B	2	_____
PH 400	Special Topics in Physics****	3	_____
PH 455	Analog Electronics**	3	_____
PH 460	Introduction to Mathematical Physics****	3	_____
PH 498	Undergraduate Research in Physics I	3	_____
PH 499	Undergraduate Research in Physics II	3	_____

Note: Most upper level courses require a number of mathematics and/or physics courses as either prerequisites or corequisites.

*	MATH 270 Calculus 1 (co- or pre-)	^A minimum of 2-300 level physics courses completed or in progress
**	MATH 271 Calculus 2 (co- or pre-)	
***	MATH 272 Calculus 3 (co- or pre-)	^B minimum of 4-300 level physics courses completed or in progress
****	MATH 350 Diff. Equations (co- or pre-)	