

Physics BA Applied Physics/Pre-Eng.

45-48 credits

(Major Code: 084, Concentration Code: 08B)

Courses Required for Major

Number	Title	Credits	Perspectives
Phys 145.4	Principles of Physics I	4	AoK: NS
Phys 145.1	Principles of Physics I Laboratory	1	AoK: NS-L
Phys 146.4	Principles of Physics II	4	AoK: NS
Phys 146.1	Principles of Physics II Laboratory	1	AoK: NS-L
Phys 222	Optics	3	
Phys 225	Solid State Electronics	4	
Phys 233	Intermediate Methods of Math Physics I	3	
Phys 235	Classical Physics Laboratory	2	
Phys 237	Mechanics	4	
Phys 242 / 243	Thermodynamics / Thermodynamics and Statistical Mechanics	3 4	
Phys 260	Introduction to Modern Physics	4	
Phys 310	Electromagnetism 1	4	
Phys 377	Modern Physics Laboratory	2	

Elective Requirements: One 200 level or above Physics course (excluding Physics 204), and one 3- or 4-credit science/mathematics course, approved by the department.

Math Prerequisite (needed for course number in parentheses)

Number	Title	Credit
Math 151 (for Phys 145)	Calculus/ Differentiation & Integration	4
Math 152 (for Phys 146)	Calculus/ Integration & Infinite Series	4
OR		
Math 141 (for Phys 145)	Calculus/Differentiation	3
Math 142 (for Phys 146)	Calculus/Integration	3
Math 201 (for Phys 233)	Calculus	4

AoK = Area of Knowledge

NS = Natural Science

NS-L = Natural Science with Lab (only if including the 4 credit related lecture course)