

Physics

48-53 credits

BA Applied Option

(Major Code: PHYS-BA, Concentration Code: PHYS-APPL)

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 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 (and Statistical Mechanics)	3 (4)	
PHYS 260	Introduction to Modern Physics	4	
PHYS 310	Electromagnetism I	4	
PHYS 377	Modern Physics Laboratory	2	

Electives:

Four 3- or 4-credit courses from the following list: physics courses at the 200 level or above (excluding PHYS 204 and 207), BIOL 105 and above, CHEM 113 and above, MATH 200 and above, and CSCI 111 and above.

Math Prerequisites (needed for course number in parentheses)

Number	Title	Credits
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)	Multivariable Calculus	4

AoK = Area of Knowledge

NS = Natural Science

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