

# 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)