

Physics Physics Education Major

43-45 (PHYS) + 24 (SEYS) credits

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 220W	Current Issues in Physics	2	
Phys 222	Optics	3	
Phys 225	Solid State Electronics	4	
Phys 233.1	Intermediate Methods of Math Physics I for Physics-Science Education Majors	1	
Phys 235	Classical Physics Laboratory	2	
Phys 237	Mechanics	4	
Phys 242	Thermodynamics	3	
Phys 260	Introduction to Modern Physics	4	
Astr 002	Astronomy with Laboratory	4	

Additional Requirements: Two 3- or 4-credit Physics courses at the 200 level or above (excluding Physics 204), approved by the department.

Minor in Secondary Education & Youth Services (SEYS)

Number	Title	Credits
SEYS 201W	Historical, Social and Philosophical Foundations of Education	3
SEYS 221	Development and Learning in Middle Childhood & Adolescence	3
SEYS 340	Language, Literacy, and Culture In Education	3
SEYS 350	Cognition, Technology and Instruction for Diverse Learners	3
SEYS 362	Methods in Teaching Content Area in Middle and High School	3
SEYS 372.2	Initial Clinical Experience M.S. or High School	2
SEYS 372.4	Student Teaching in High School or Middle School	4
SEYS 382	Standards-Based Curriculum and Assessment in Teaching the Content	3

(continued...)

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)