

EDUCATION MAJOR: PHYSICS
ST OLAF COLLEGE EDUCATION DEPARTMENT
(For Students Entering the Teacher Education Program Fall 2022 and After)

Physics Teacher Candidates Must:

1. Meet all Professional Educator Licensing and Standards Board (PELSB) Pedagogy and Content Standards.
2. Pass the Minnesota Teacher Licensure Exam (MTLE) competency exams in their Content Area(s) and in Pedagogy before licensure.
3. Have a major in Physics.

PROFESSIONAL EDUCATION REQUIREMENTS

Course Credit

_____ Education 231: Understanding Substance Abuse	0.00
_____ Education 295: Foundation of Education (Fall)	1.00
_____ Education 300: Planning, Instruction, and Assessment (Spring)	1.00
_____ Education 330 Lab (Spring)	0.00
_____ Education 340: Differentiating Instruction (Fall)	1.00
_____ Education 381: Senior Seminar	0.50
_____ Education 382: Human Relations Component	0.00
_____ Education 389: Student Teaching	3.00

One Interim

_____ Education 378: Multicultural Education in Hawaii (Offered in even years)(OEP, PAR)	1.00
_____ Education 379: Urban Education Practicum and Seminar (OEP, PAR)	
_____ One additional PAR course to meet licensure standards	1.00

PHYSICS (9-12) CONTENT AREA LICENSURE REQUIREMENTS

_____ Education 364: Teaching of Science 5-12* (Spring)	1.00
_____ Education 374: Reading in the Content Area*	0.50
_____ Physics 130: Analytical Physics I* (NTS)	1.00
_____ Physics 131: Analytical Physics II* (NTS)	1.00
_____ Physics 232: Analytical Physics III* (NTS)	1.00
_____ Physics 244: Modern Physics/PHYS 245L Modern Physics Laboratory*	1.25
_____ Physics 385: Advanced Physics Laboratory*	0.25
_____ Physics 386: Advanced Physics Laboratory*	0.25

One of the following courses:

_____ Physics 374: Classical Mechanics	1.00
_____ Physics 375: Maxwell's Equations	
_____ Physics 376: Quantum Mechanics	

ADDITIONAL COURSES FOR THE PHYSICS MAJOR

Two of the following:

_____ Physics 374: Classical Mechanics (if not selected above)	2.00
_____ Physics 375: Maxwell's Equations (if not selected above)	
_____ Physics 376: Quantum Mechanics or one additional 3XX Physics course	

This document is intended to serve as an advising tool and is subject to change. It is important for students to meet with Education Faculty regularly to verify that they are satisfying all requirements for licensure and with content faculty to ensure that major requirements are being met. All course substitutions must be documented on a Course Substitution Form and approved by the Director of Licensure.

** Indicates content courses in which Professional Educator Licensing and Standards Board (PELSB) Standards are embedded.*