

**EDUCATION MAJOR: PHYSICS**  
**ST. OLAF COLLEGE EDUCATION DEPARTMENT**  
*(For Students Entering St. Olaf Fall 2022 and After)*

**Physics Teacher Candidates Must:**

1. Meet all Professional Educator Licensing and Standards Board (PELSB) Pedagogy and Content Standards.
2. Have a major in Physics.

**PROFESSIONAL EDUCATION REQUIREMENTS**

**Course Credit**

<input type="checkbox"/>	Education 231: Understanding Substance Abuse	0.00
<input type="checkbox"/>	Education 290: Foundation of Educational (Fall)	1.00
<input type="checkbox"/>	Education 330: Planning, Instruction and Assessment (Spring)	1.00
<input type="checkbox"/>	Education 330: Lab (Spring)	0.00
<input type="checkbox"/>	Education 340: Differentiating Instruction (Fall)	1.00
<input type="checkbox"/>	Education 381: Senior Seminar	0.50
<input type="checkbox"/>	Education 382: Human Relations Component	0.00
<input type="checkbox"/>	Education 389: Student Teaching	3.00
<b>One J-Term Course</b>		<b>1.00</b>
<input type="checkbox"/>	Education 378: Multicultural Education in Hawaii (Offered in even years) <b>(OEP, PAR)</b>	
<input type="checkbox"/>	Education 379: Urban Education Practicum and Seminar <b>(OEP, PAR)</b>	
<input type="checkbox"/>	<b>One additional PAR</b> course to meet licensure standards	<b>1.00</b>

**PHYSICS (9-12) CONTENT AREA LICENSURE REQUIREMENTS**

<input type="checkbox"/>	Education 364: Teaching of Science 5-12* (Spring)	1.00
<input type="checkbox"/>	Education 374: Reading in the Content Area*	0.50
<input type="checkbox"/>	Physics 130: Analytical Physics I* <b>(NTS)</b>	1.00
<input type="checkbox"/>	Physics 131: Analytical Physics II* <b>(NTS)</b>	1.00
<input type="checkbox"/>	Physics 232: Analytical Physics III* <b>(NTS)</b>	1.00
<input type="checkbox"/>	Physics 244: Modern Physics/PHYS 245L Modern Physics Laboratory*	1.25
<input type="checkbox"/>	Physics 385: Advanced Physics Laboratory*	0.25
<input type="checkbox"/>	Physics 386: Advanced Physics Laboratory*	0.25
<b>One</b> of the following courses:		<b>1.00</b>
<input type="checkbox"/>	Physics 374: Classical Mechanics	
<input type="checkbox"/>	Physics 375: Maxwell's Equations	
<input type="checkbox"/>	Physics 376: Quantum Mechanics	

**ADDITIONAL COURSES FOR THE PHYSICS MAJOR**

<b>Two</b>	of the following:	<b>2.00</b>
<input type="checkbox"/>	Physics 374: Classical Mechanics (if not selected above)	
<input type="checkbox"/>	Physics 375: Maxwell's Equations (if not selected above)	
<input type="checkbox"/>	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.