

**GENERAL SCIENCE EDUCATION LICENSURE PROGRAM  
ST OLAF COLLEGE EDUCATION DEPARTMENT**

**General Science (5-8) 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 a science content area (biology, chemistry, physics).
4. If pursuing both the 5-8 and 9-12 science licenses, choose to student teach at either the 5-8 or 9-12 level and complete their education interim at the opposite grade level.

**PROFESSIONAL EDUCATION REQUIREMENTS**

<u>PROFESSIONAL EDUCATION REQUIREMENTS</u>	<u>Course Credit</u>
___ Education 231: Understanding Substance Abuse	0.00
___ Education 272: Counseling and Communication in the Schools	0.50
___ Education 290: Educational Psychology ( <i>HBS</i> )	1.00
___ Education 291: Educational Technology	0.00
___ Education 330: Principles of Education ( <i>ORC</i> )	1.00
___ Education 375: Differentiated Instruction for Exceptional Learners	0.50
___ Education 381: Senior Seminar	0.50
___ Education 382: Human Relations Component	0.00
___ Education 385: Human Issues in Education	0.50
___ Education 389: Student Teaching	3.00
<b>One Interim (<i>MCD</i>)</b>	1.00
___ Education 378: Multicultural Education in Hawaii (Offered in even years)	
___ Education 379: Urban Education Practicum and Seminar	

**CONTENT AREA LICENSURE REQUIREMENT**

<u>CONTENT AREA LICENSURE REQUIREMENT</u>	<u>Course Credit</u>
___ Education 364: Teaching of Science 5-12* (Spring) ( <i>WRI</i> )	1.00
___ Education 374: Reading in the Content Area*	0.50
___ Biology 150: Evolutionary Foundations of Biodiversity*	1.00
___ Physics 124: Principles of Physics I* (Fall)	1.00
___ Physics 125: Principles of Physics II* (Spring)	1.00
<b>One of the following courses*:</b>	1.00
___ Biology 227: Cell Biology	
___ CH/BI 227: Cellular and Molecular Biology in a Chemical Context	
<b>One of the following*:</b>	1.00
___ Chemistry 125: Structural Chemistry and Equilibrium	
___ Chemistry 121: General Chemistry <i>and</i> Chemistry 123: Atomic and Molecular Structure	
___ CH/BI 125: Chemical Concepts with Biological Applications	
<b>One of the following courses*:</b>	1.00
___ Physics 112: Introductory Astronomy	
___ ASTRO 110: Introduction to Astronomy (Carleton)	
<b>One of the following courses:</b>	1.00
___ Environmental Studies 123: Geophysics: Perspectives on the Dynamic Earth (Fall)	
___ GEOL 120: Introduction to Environmental Geology (Carleton)	

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.*