GENERAL SCIENCE EDUCATION LICENSURE PROGRAM

**ST OLAF COLLEGE EDUCATION DEPARTMENT**

**General Science (5-8) Teacher Candidates Must:**

1. Meet all Minnesota Board of Teaching Pedagogy and Content Standards.
2. Pass the NES Basic Skills in Reading, Writing, and Mathematics prior to student teaching (this requirement could be met by reaching ACT+Writing/SAT threshold scores).
3. Pass the MTLE competency exams in their Content Area(s) and in Pedagogy before licensure.
4. Have a major in a science content area (biology, chemistry, physics).
5. 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 Course Credit**

\_\_\_\_ Education 231: Drugs and Alcohol 0.00

\_\_\_\_ Education 290: Educational Psychology (***HBS***) 1.00

\_\_\_\_ Education 291: Standards and Technology 0.00

\_\_\_\_ Education 330: Principles of Education (***ORC***) 1.00

\_\_\_\_ Education 372: Counseling and Communication in the Schools 0.50

\_\_\_\_ 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

**One** Interim (***MCD***) 1.00

\_\_\_\_ Education 378: Multicultural Education in Hawaii (Offered in even years)

\_\_\_\_ Education 379: Urban Education Practicum and Seminar

**CONTENT AREA LICENSURE REQUIREMENT Course Credit**

\_\_\_\_ Education 364: Teaching of Science 5-12\* (Spring) (***WRI***) 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

**One** of the following courses\*: 1.00

\_\_\_\_ Biology 227: Cell Biology

\_\_\_\_ CH/BI 227: Cellular and Molecular Biology in a Chemical Context

**One** of the following\*: 1.00

\_\_\_\_ Chemistry 125: Structural Chemistry and Equilibrium

\_\_\_\_ Chemistry 121: General Chemistry *and* Chemistry 123: Atomic and Molecular Structure

\_\_\_\_ CH/BI 125: Chemical Concepts with Biological Applications

**One** of the following courses\*: 1.00

\_\_\_\_ Physics 112: Introductory Astronomy

\_\_\_\_ ASTRO 100: Introduction to Astronomy (Carleton)

**One** of the following courses: 1.00

\_\_\_\_ Environmental Studies 123: Geophysics: Perspectives on the Dynamic Earth (Fall)

\_\_\_\_ GEOL 120: Introduction to Environmental Geology (Carleton)