1. **COURSE ID:** PHYS 126  
   **TITLE:** Teaching Science I: K-5 Classroom Experience and Seminar  
   **Units:** 1.0 units  
   **Hours/Semester:** 16.0-18.0 Lecture hours  
   **Method of Grading:** Letter Grade Only

2. **COURSE DESIGNATION:**  
   - Degree Credit  
   - Transfer credit: CSU  
   - **AA/AS Degree Requirements:**  
     - CSM - GENERAL EDUCATION REQUIREMENTS: E5d. Career Exploration and Self-Development

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  
   Investigation of elementary school teaching careers and requirements for earning a California K-5 school teaching credential; study of California Department of Education standards in science for grades K-5; development and teaching class lessons in physical and life sciences. Same as BIOL 126.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Describe California Department of Education and Common Core standards in science for elementary school (grades K-5), with specific examples in one grade.  
   2. Explain how to approach designing a classroom science lesson for elementary school.  
   3. Describe classroom behavior and expectations for elementary school science classes.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Describe California Department of Education and Common Core standards in science for elementary school (grades K-5), with specific examples in one grade.  
   2. Explain how to approach designing a classroom science lesson for elementary school,  
   3. Describe classroom behavior and expectations for elementary school science classes

6. **COURSE CONTENT:**  
   **Lecture Content:**  
   1. Introduction to course requirements, mentor and student responsibilities  
   2. Lecture & internet research on Teaching careers, credential preparation  
   3. Lecture and internet research on California Department of Education and Common Core science standards grades K-5  
   4. Lecture/discussion on elementary school teaching strategies  
   5. Class project: lesson development in physical sciences or life sciences in grades K-5  
   6. Students evaluate class lessons, mentor teacher reports  
      A. Student summaries of journals

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**  
   Typical methods of instruction may include:  
   A. Discussion  
   B. Field Experience  
   C. Other (Specify): The class is seminar format, with instructor-led discussions and some guest presentations; instructor-directed internet research and discussion by students; informal presentations by students followed by discussions of teaching experiences and results of research into standards; students will report on preparation and delivery of science lessons for the elementary school classroom; students have field experience in mentor K-5 classroom.

8. **REPRESENTATIVE ASSIGNMENTS**  
   Representative assignments in this course may include, but are not limited to the following:  
   **Writing Assignments:**  
   Students complete a journal with entries after each class meeting and after each visit to K-5 mentor's classroom. Students complete mentor and course evaluations.
**Reading Assignments:**
Students read online sources to prepare presentations on Common Core and State Science standards for K-5 classrooms.

**Other Outside Assignments:**
Students present Common Core background and standards for certain disciplines and grades levels in K-5 classes.

9. **REPRESENTATIVE METHODS OF EVALUATION**
Representative methods of evaluation may include:
A. Students will investigate assigned topics and complete written homework assignments (SLO 1); students will keep journals of their classroom experiences; students will write up their lesson plans (SLO 2); mentors will complete student evaluations (SLO 3).

10. **REPRESENTATIVE TEXT(S):**
Other:
A. Web-based references, including California State Department of Education publications, and materials provided by mentor teachers, will be used in place of a textbook.

**Origination Date:** May 2016  
**Curriculum Committee Approval Date:** October 2016  
**Effective Term:** Fall 2017  
**Course Originator:** Mohsen Janatpour