## College of San Mateo Official Course Outline

1. **COURSE ID:** BIOL 128 **TITLE:** Teaching Science III: High School Classroom Experience and Seminar

**Units:** 1.0 units **Hours/Semester:** 16.0-18.0 Lecture hours

**Method of Grading:** Letter Grade Only **Prerequisite:** BIOL 127, or PHYS 127

#### 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 high school teaching careers and requirements for earning a California high school teaching credential; study of California Department of Education standards in science for grades 9-12; development and teaching class lessons in physical and life sciences. Same as PHYS 128.

# 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 high school (grades 9-12), with specific examples in one grade,
- 2. explain how to approach designing a classroom science lesson for high school,
- 3. describe classroom behavior and expectations for high 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 high school (grades 9-12), with specific examples in one field of science
- 2. explain how to approach designing a classroom science lesson for high school,
- 3. describe classroom behavior and expectations for high school science classes

#### **6. COURSE CONTENT:**

#### **Lecture Content:**

I.Introduction to course requirements, mentor and student responsibilities

- II. Lecture & internet research on Teaching careers, credential preparation
- III. Lecture and internet research on California Department of Education and Common Core science standards grades 9-12

IV.Lecture/discussion on high school teaching strategies

V. Class project: lesson development in physical sciences or life sciences in grades

VI. Students evaluate class lessons, mentor teacher reports Student summaries of journals

## 7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

- A. Directed Study
- B. Discussion
- C. Field Experience
- D. Guest Speakers
- E. 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's high school 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 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 high school science classrooms.

## **Other Outside Assignments:**

Students present Common Core background and standards for certain disciplines and high school grade levels.

## 9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Oral Presentation
- C. Portfolios
- D. Students will investigate assigned topics and give oral presentation to the class (SLO 1); students will keep journals of their classroom experiences and share their experiences with the class (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: October 2015 Curriculum Committee Approval Date: May 2016

**Effective Term:** Fall 2016

Course Originator: Kathleen Diamond