

## Restructured General Science with Teaching, B.S. Degree.

### List of new requirements:

#### 1. **Basic Requirements:** (44-48 cr. total)

##### a. **Math Options**

Option 1 (4 cr.)

Math 1031, Basic Concepts of Calculus

Option 2 (8 cr.)

Math 1041&1042 Calculus

Math 1941&1942 Calculus for Honors Students

##### b. **Biology**—One of the following (8 cr. total):

Biology 1011&1012, General Biology

Biology 1111&2112, Introduction to Biology

Kinesiology 1223&1224, Human Anatomy and Physiology

##### c. **Chemistry**—One of the following (8 cr. total):

Chemistry 1021-1024, Introduction to Chemistry

Chemistry 1031-1034, General Chemistry

Chemistry 1041-1044, General Chemistry for Chemistry Majors

Chemistry 1951-1954, General Chemistry for Honors Students

##### d. **Geology**—(4 cr. total):

Geology 1001 or 2001, Introduction to Geology

##### e. **Physics**—One of the following (8 cr. total):

Physics 1021&1022, Introduction to General Physics

Physics 1061&1062, Elementary Classical Physics

Physics 2021&2022, General Physics

Physics 2921&2922, General Physics

##### f. **Other Requirements**—All of the following (12 cr. total):

Physics 0846, Universe as we Know it

Engl 2696, Technical Writing

Phil 2196 Perspectives in Science & Mathematics

CST xxxx Research Methods (Capstone)

#### 2. **Upper Level Concentration** (12-16 cr. total)

*Students in the Natural Science Program must choose a concentration area and complete a total of 4 upper level courses (of three or more credits) in chemistry, biology, geology or physics. Course selections must be done in consultation with a CST advisor.*

#### 3. **Qualifying Examination** (0 cr. total)

*All students in this program must take a qualifying examination after completion of the basic course work described in 1 (a-e).*

**Subset Credit Hours: 56-64**



**4. TTeach Additional Requirements** (21 additional cr. total)

- UTeach Step 1 (1 cr.)
- UTeach Step 2 (1 cr.)
- UTeach Knowing and Learning (3 cr.)
- UTeach Classroom Interactions (3 cr.)
- UTeach Perspectives in Science & Mathematics (credits already counted)
- TUteach Language & Literacy in Math & Sci (3 cr.)
- UTeach Research Methods (credits already counted)
- UTeach Project-Based Instruction (3 cr.)
- UTeach Apprentice Teaching (6 cr.)
- UTeach Apprentice Teaching Seminar (1 cr.)

**Total Credit Hours: 77-85**

**Upper Level Credit Hours: = 34-50**

## **Comparison to old General Science with Teaching BS:**

### **Added**

Engl 2696, Technical Writing (3 cr.)

### **Changed**

Physics 1004 (Astronomy) to Phys 0846 (Universe as We Know It) (changed from 4 to 3 cr.)

CST 4351 to CST xxxx Research Methods (changed from 3 cr. to 0 additional cr.)

### **Eliminated**

CIS 1068, Program Design and Abstraction (4 cr.)

Removed requirement to take a writing intensive course amongst the upper level concentration courses since now have two writing intensive requirements for the major (Engl 2696 and Phil 2196)

**Previously 82-90 credits**

**Now 77-85 credits**