

BA in the Natural Sciences

Proposal for a new major

This major provides background in every natural science offered in CST departments. This major would serve many pre-professional programs and includes necessary preparation for teaching science in grades 5-10.

The major requirements include:

1. Options for Math and Physics

Option 1	Option 2
Math CO77, Basic Concepts of Calculus	Math CO85, CO86 Calculus I and II or CO95, CO96, Calculus I and II for Honors Students
Physics CO85, CO86, Introduction to General Physics I and II	Physics CO87, CO88, Elementary Classical Physics I and II or Physics 121, 122, General Physics I and II
Total credits: 12	Total Credits: 16

2. Basic Science Requirements:

a. Chemistry

Chemistry CO61, Introduction to Chemistry I, or
Chemistry CO71, General Chemistry I

And

Chemistry CO62, Introduction to Chemistry II, or
Chemistry CO72, General Chemistry II

Or

Chemistry CO81, CO82, General Chemistry for Chemistry Majors

Or

Chemistry CO91, CO92, General Chemistry for Honors Students

b. Biology

Biology CO83, CO84, General Biology I and II, or
Biology 101, 102, Introduction to Biology I and II or

Kinesiology 100, 101, Human Anatomy and Physiology I and II

c. Geology

Geology CO50, Introduction to Geology

Geology CO62, Climate Change: Oceans to Atmospheres

d. Other Requirements

Physics CO56/HO96, Introduction to Astronomy

CST 300, History of Science

CST 350, Paradigms of Scientific Knowledge (Capstone, new course)

Total Credits: 32

3. Upper Level Concentration

Students in the Natural Science Program must choose a concentration area and complete a total of 5 upper level courses (of three or more credits) in chemistry, biology, geology or physics. One of these courses must be writing intensive.

Course selections must be done in consultation with a CST advisor.

Total Credits: 18-24

4. Qualifying Examination

All students in this program must take a qualifying examination after completion of the basic course work described in 1 and 2(a-d).

Credit Hour Totals:

Total Credit Hours: (Based on minimum)

Option 1: 62

Option 2: 66

Credit Hours at the Upper level: (Based on minimum) = 22