

ENDORSEMENT NO. 150
Science
GRADE LEVEL: K-8

(Form revision 03/2010)

Institution Name: Cornell College

Date Submitted:

New or Revised (If this is a revision, also submit a letter explaining the changes made)

Undergraduate or Graduate

Professional Education Core:

Requirements unique to this endorsement:

STATE REQUIREMENTS Professional Core	INSTITUTIONAL REQUIREMENTS Course(s) for Demonstrating Competencies
Methods of teaching with an emphasis in Elementary Science	EDU 317 Elementary Science and Social Studies
Student Teaching	EDU 410, 420, 430, 440 Student Teaching

Content:

A. Completion of a thirty semester hour teaching major which must minimally include

B. Completion of twenty-four semester hours in Science to include the following:

STATE REQUIREMENTS Content Categories	INSTITUTIONAL REQUIREMENTS Course Numbers and Titles	Credit Hrs.
12 hours in Physical Science	CHE 111 Chemistry in the Natural World AND CHEM 108 Topics Course in Chemistry OR CHE 121 Chemical Principles I AND CHE 122 Chemical Principles II PHY 101 Introduction to Physics	12
6 hours in Biology	BIO 106 Biology for the Schools and BIO 103 Investigations OR BIO 108 Topics	8
6 hours in Earth/Space Sciences	GEO 101 Earth Science and GEO 111 Physical Geology OR GEO 105 Marine Science	8
(1) Competencies.		
Understand the nature of scientific inquiry, its central role in science, and how to use the skills and processes of scientific inquiry.	CHE 111 Chemistry in the Natural World BIO 106 Biology for the Schools GEO 101 Earth Science EDU 317 Elementary Science and Social Studies	
Understand the fundamental facts and concepts in major science disciplines.	EDU 317 Elementary Science and Social Studies	
Be able to make conceptual connections within and across science disciplines as well as to mathematics, technology, and other school subjects.	BIO 103 Investigations BIO 108 Topics EDU 317 Elementary Science and Social Studies	

Be able to use scientific understanding when dealing with personal and societal issues.	EDU 317 Elementary Science and Social Studies	
Other	Major in Elementary Education	
TOTAL Credit Hours		28