

Institution Name: Cornell College

Date approved:

Updated date:

ENDORSEMENT NO. 150

IAC 14.141(17)a

Science

GRADE LEVEL: K-8

February 2006

Professional Education Core:

Requirements unique to this endorsement:

DATE OF PROGRAM:

September 18, 2002

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 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 CHE 121 Chemical Principles I PHY 101 Introduction to Physics	12
6 hours in Biology	BIO 106 Biology for the Schools <u>and</u> BIO 103 Investigations <u>OR</u> BIO 108 Topics	4 4
6 hours in Earth/Space Sciences	GEO 101 Earth Science <u>and</u> GEO 111 Physical Geology <u>OR</u> GEO 105 Marine Science	4 4
(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