

Institution Name: Cornell College
Date approved: November 2007
Updated date: January 26, 2007

ENDORSEMENT NO. 152

IAC 14.141(17)c

Chemistry

GRADE LEVEL: 5-12

February 2006

DATE OF PROGRAM:

September 3, 2007

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 Science	EDU 324 Secondary Mathematics, Science and Social Studies EDU 328 Reading in the Content Area
Student Teaching in Chemistry	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 Chemistry or
- C. Thirty semester hours in the broad area of Science to include fifteen semester hours in Chemistry.

Option 1:

STATE REQUIREMENTS Content Categories	INSTITUTIONAL REQUIREMENTS Course Numbers and Titles	Credit Hrs.
24 semester hours in Chemistry	1. CHE 121 Chemical Principles I	4
	2. CHE 122 Chemical Principles II	4
	3. CHE 202 Analytical Chemistry	4
	4. CHE 225 Organic Chemistry I Lecture	4
	5. CHE 323 Physical Chemistry I	4
	6. CHE 324 Physical Chemistry II	4
	7. CHE 326 Organic Chemistry II Lecture	4
	8. CHE 327 Organic Chemistry Laboratory	4
	9. Two courses from the following: CHE 328 Advanced Organic Chemistry CHE 333 Advanced Analytical Chemistry CHE 334 Biochemistry CHE 335 Advanced Inorganic Chemistry CHE 339 Advanced Physical Chemistry CHE 485 Chemical Research	8
	10. MAT 119 AND `120 Calculus of a Single Variable Part I & II OR MAT 121 Calculus of a Single Variable	4 or 8
	11. MAT 122 Calculus II	4
	12. PHY 111 General Physics I	4
	13. PHY 112 General Physics II	4
	14. PHY 114 Laboratory Physics	4
TOTAL Credit Hours		60 or 64

OR

Option 2:

Continued next page.

Option 2

STATE REQUIREMENTS Content Categories	INSTITUTIONAL REQUIREMENTS Course Numbers and Titles	Credit Hrs.
30 semester hours in the broad area of Science to include 15 semester hours in Chemistry	1. CHE 121 Chemical Principles I	4
	2. CHE 122 Chemical Principles II	4
	3. CHE 202 Analytical Chemistry	4
	4. CHE 225 Organic Chemistry	4
	5. A major in any Cornell Science	
TOTAL Credit Hours		16