

Institution Name: Cornell College

Date approved: November 2007

Updated date: January 26, 2007

ENDORSEMENT NO. 151

IAC 14.141(17)b

Biological

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 Biology	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 Biological Science **or**

C. Thirty semester hours in the broad area of Science to include fifteen semester hours in Biology.

Option 1:

STATE REQUIREMENTS Content Categories	INSTITUTIONAL REQUIREMENTS Course Numbers and Titles	Credit Hrs.
24 Semester Hours in Biology	1. BIO 141 Foundations: Cellular Biology	4
	2. BIO 142 Foundations: Organismal Biology	4
	3. BIO 205 Cell and Molecular Biology	4
	4. BIO 211 Evolution	4
	5. BIO 315 Genetics	4
	6. BIO 321 Ecology	4
	7. Bio 485 Biological Problems – <u>strongly</u> recommended but not required	
	8. One course from the following: BIO 305 Advanced Molecular Biology BIO 313 Developmental Biology BIO 326 Microbiology BIO 327 Immunology BIO 328 Neurobiology	4
	9. One course from the following: BIO 209 Plant Morphology BIO 303 Plant Physiology BIO 320 Iowa Plant Communities BIO 332 Plant Systematics	4
	10. One course from the following: BIO 254 Ornithology BIO 308 Invertebrate Zoology BIO 312 Vertebrate Zoology BIO 334 Animal Behavior	4
	11. CHE 121 Chemical Principles I CHE 122 Chemical Principles II CHE 225 Organic Chemistry I Lecture	12
	TOTAL Credit Hours	48

OR

Option 2:

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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 Biology	1. BIO 141 Foundations: Cellular Biology	4
	2. BIO 142 Foundations: Organismal Biology	4
	3. BIO 103 Investigations <u>OR</u> BIO 205 Cell and Molecular Biology	4
	4. BIO 106 Biology for the Schools <u>OR</u> BIO 211 Evolution	4
	5. Major in any Cornell Science	
TOTAL Credit Hours		16