

BIOLOGY CERTIFICATION

Name _____ Date _____ Class Yr _____ HUB _____
 Phone _____ Email _____ Semester/Yr Planning to Student Teach _____
 Major Adviser _____ *(Example: Spring 2014)*

Note: Major requirements and certification requirements may differ somewhat. Seek degree completion advice in your major department.

SPECIALIZATION REQUIREMENTS

Course No.	Course Title	Completed	Grade	Need
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NINE BIOLOGY COURSES

Two one hundred level courses

One of the following:

BIO 120	Life at the Extremes	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 123	Interactions Plants, Animals, Fungi	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 124	Biology of Behavior	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 129	Changing Ocean Ecosystems	<input type="checkbox"/>	_____	<input type="checkbox"/>

AND

One of the following:

BIO 122	Biochemical Basis Metabolic Disorder	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 125	Understanding Cancer	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 126	Infectious Disease /Immune Defense	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 127	This Is Your Life	<input type="checkbox"/>	_____	<input type="checkbox"/>

One two hundred level course required for certification

BIO 216*	Genetics	<input type="checkbox"/>	_____	<input type="checkbox"/>
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One Botany Course from the following:

BIO 320*	Forest Ecology	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 323*	Algae, Fungi, and Lichens	<input type="checkbox"/>	_____	<input type="checkbox"/>
(Only offered every other year)				
BIO 324*	Plant Geography and Ecology	<input type="checkbox"/>	_____	<input type="checkbox"/>
(Only offered every other year)				

One Zoology Course from the following:

BIO 318	Animal Development	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 321	Invertebrate Zoology	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 330	Neurobiology	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 333	Physiology	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO 334	Vertebrate Biology	<input type="checkbox"/>	_____	<input type="checkbox"/>

Research Experience fulfilled by one of the Following (with permission of biology advisor):

BIO 412	Seminar	<input type="checkbox"/>	_____	<input type="checkbox"/>
Off-Campus internship in Biology for academic credit		<input type="checkbox"/>	_____	<input type="checkbox"/>
Title _____				
BIO 550	Independent research	<input type="checkbox"/>	_____	<input type="checkbox"/>
Title _____				

Electives: Three other courses at 300 level or above. These may include additional botany or zoology courses listed above.

BIO _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO _____	<input type="checkbox"/>	_____	<input type="checkbox"/>
BIO _____	<input type="checkbox"/>	_____	<input type="checkbox"/>

(OVER)

Four Required Chemistry Courses:

CHEM 131	General Chemistry I	<input type="checkbox"/>	_____	<input type="checkbox"/>
CHEM 132	General Chemistry II	<input type="checkbox"/>	_____	<input type="checkbox"/>
CHEM 241	Synthesis & Reactivity I	<input type="checkbox"/>	_____	<input type="checkbox"/>
CHEM 242	Synthesis Reactivity II	<input type="checkbox"/>	_____	<input type="checkbox"/>

One Course in Geology* **:

GEO _____ _____

One Course in Physics* **:

PHYS _____ _____

*Required for certification

**Studies in physics and geology may be met by a) a course at Dickinson or an approved institution of higher education, b) independent study, c) competency test, or d) a satisfactory score on AP test.

(Revised 4-28-10)