



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Substantive Program Modification Program

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

UNIVERSITY:	DSU
CURRENT PROGRAM TITLE:	BS Ed in Biology for Education
CIP CODE:	
UNIVERSITY DEPARTMENT:	College of Arts and Sciences
UNIVERSITY DIVISION:	College of Arts and Sciences

University Approval

To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

<hr/> Vice President of Academic Affairs or President of the University	Click here to enter a date. <hr/> Date
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1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |

2. Effective date of change: 8/1/2017

3. Program Degree Level (place an "X" in the appropriate box):

Associate Bachelor's Master's Doctoral

4. Category (place an "X" in the appropriate box):

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur (place an "X" in the appropriate box):

- On the effective date for all students
- On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name: _____

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. Primary Aspects of the Modification (add lines or adjust cell size as needed):

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Prof.	Num.	Title	Cr. Hrs.	Prof.	Num.	Title	Cr. Hrs.
System Wide General Education Requirement*			30	System Wide General Education Requirement*			30
Majors must take ESPY 210, INED 211, BIOL 151, BIOL 165 and MATH 102 as part of the System-wide General Education Requirement				Majors must take ESPY 210, INED 211, BIOL 151, BIOL 153 and MATH 102 as part of the System-wide General Education Requirement			
Institutional Graduation Requirement			11				
Majors must take CIS 130 as part of the Institutional Graduation Requirement.							
Note: Students should complete professional education coursework concurrently with general education and content major coursework.				Note: Students should complete professional education coursework concurrently with general education and content major coursework			
Biology Component			39	Biology Component			32
BIOL	145	Introduction to Scientific Inquiry	1	BIOL	145	Introduction to Scientific Inquiry	1
BIOL	204	General Botany	4				
BIOL	221	Human Anatomy	4	BIOL	280/280L	Inquiry & Analysis in Biology /	2
BIOL	311	Principles of Ecology	4	BIOL	221	Human Anatomy	4
BIOL	371	Genetics	4	BIOL	311	Principles of Ecology	4
BIOL	498	Undergraduate Research/Scholarship	2	BIOL	371	Genetics	4
Select 12 credits from the following			12	Select 15 credits from the following			15
BIOL	325	Physiology		BIOL	498	Undergraduate Research/Scholarship	2
BIOL	331	Microbiology		BIOL	325	Physiology	
BIOL	343	Cell and Molecular Biology		BIOL	331	Microbiology	
BIOL	365	Vertebrate Zoology		BIOL	343	Cell and Molecular Biology	
BIOL	410	Conservation Biology		BIOL	365	Vertebrate Zoology	
BIOL	415	Mycology		BIOL	410	Conservation Biology	
BIOL	450	Aquatic Biology		BIOL	422	Immunology	
BIOL	492	Topics *		BIOL	450	Aquatic Biology	
*May be repeated provided student does not enroll in the same topics course. One credit Biology topics offering may not be combined to substitute for a required or elective three-or-four credit Biology course.				*May be repeated provided student does not enroll in the same topics course. One credit Biology topics offering may not be combined to substitute for a required or elective three-or-four credit Biology course.			
Chemistry Component			8	Chemistry Component			8
CHEM	112	General Chemistry I	4	CHEM	112	General Chemistry I	4

CHEM	114	General Chemistry II	4	CHEM	114	General Chemistry II	4
Computer Technology Component			6	Computer Technology Component			12
				CSC	105	Introduction to Computers	3
				CIS	130	Visual Basic Programming OR	3
				CSC	123	Problem Solving & Program OR	
				CSC	150	Computer Science I	
CIS	350	Comp Hardware, Data Comm & Networking	3	CIS	350	Comp Hardware, Data Comm & Networking	3
SCTC	303	Intro. To Biological Instrumentation	3	SCTC	303	Intro. To Biological Instrumentation	3
Professional Education Courses			28	Professional Education Courses			28
Elective			-6	Elective			10
Total number of hours required for major, minor, or specialization			73	Total number of hours required for major, minor, or specialization			80
Total number of hours required for degree			120	Total number of hours required for degree			120

7. Explanation of the Change:

The institutional graduation requirements are removed from the curriculum. In order for education students to receive a computer technology endorsement, CSC 105 Introduction to Computers and a choice of either CIS 130, or CSC 123 or CSC 150 are retained and moved to the computer technology component section. Most of the remaining credit hours from the IGR elimination are added to general electives.

BIOL 153 General Biology II is added to the curriculum and replaces BIOL 165 General Zoology and BIOL 201 General Botany. Botany and zoology will be occasionally taught as general education courses. Three credits from the deletion of BIOL 201 are added to the credits of biology elective courses.

BIOL 415 Mycology will no longer be taught and is deleted.

A new course BIOL 280/280L Inquiry and Analysis in Biology is added to teach lower level students the foundational skills needed for success in upper level biology courses.

BIOL 422 Immunology is added as an elective in the biology component to meet the needs of students preparing for careers in the health professions.