



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

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	B.S.
CURRENT PROGRAM MAJOR/MINOR:	Biology
CURRENT SPECIALIZATION:	Secondary Education Specialization
CIP CODE:	26.0101 – Major CIP 13.1205 – Specialization CIP
UNIVERSITY DEPARTMENT:	Department of Biology and Microbiology
BANNER DEPARTMENT CODE:	SBIM
UNIVERSITY COLLEGE:	College of Natural Sciences
BANNER COLLEGE CODE:	3T

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.

Dennis D. Hedge

Vice President of Academic Affairs or
President of the University

2/13/2025

Date

1. This modification addresses a change in:

- | | |
|---|---|
| <input type="checkbox"/> Total credits required within the discipline | <input checked="" 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 checked="" type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input checked="" type="checkbox"/> Other: Academic Requirements |
| <input type="checkbox"/> Modification requiring Board of Regents approval | |

Must have prior approval from Executive Director or designee

2. Effective date of change: 2025-2026 Academic Year

3. Program Degree Level:

Associate Bachelor's Master's Doctoral

4. Category:

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur:

- 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:

6. Is the program being modified associated with a current articulation agreement?

Yes No

a. If yes, will the articulation agreement need to be updated with the partner

institution following the approve of the program change? Please explain: N/A

7. Primary Aspects of the Modification:

Existing Curriculum

Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
Systems General Education Requirements			24-26	Systems General Education Requirements			21-23
Systems General Education Requirements - Electives			21	Systems General Education Requirements - Electives			18
		SGR 1 – Written Communication	3			SGR 1 – Written Communication	3
		SGR 1 – Written Communication	3			SGR 1 – Written Communication	3
		SGR 2 – Oral Communication	3			SGR 2 – Oral Communication	3
		SGR 3 – Social Sciences	3			SGR 3 – Social Sciences	3
		SGR 3 – Social Sciences	3			SGR 3 – Social Sciences	3
		SGR 4 – Arts and Humanities	3			SGR 4 – Arts and Humanities	3
		SGR 4 – Arts and Humanities	3			SGR 4 – Arts and Humanities	3
System General Education Requirements - Required			3-5	System General Education Requirements - Required			3-5
				AIS	211	South Dakota American Indian Culture and Education (SGR 3) (Teaching Specialization)	--
MATH	115	Precalculus OR Higher SGR #5 MATH Course	3-5	MATH	115	Precalculus OR Higher SGR #5 MATH Course	3-5
BIOL	151	General Biology I (SGR #6) (Major Requirement)	--	BIOL	151	General Biology I (SGR #6) (Major Requirement)	--
BIOL	151L	General Biology I Lab (SGR #6) (Major Requirement)	--	BIOL	151L	General Biology I Lab (SGR #6) (Major Requirement)	--
BIOL	153	General Biology II (SGR #6) (Major Requirement)	--	BIOL	153	General Biology II (SGR #6) (Major Requirement)	--
BIOL	153L	General Biology II Lab (SGR #6) (Major Requirement)	--	BIOL	153L	General Biology II Lab (SGR #6) (Major Requirement)	--
Major Requirements			55-56	Major Requirements			55-56
BIOL	119	First Year Seminar	2	BIOL	119	First Year Seminar	2
BIOL	151	General Biology I (SGR #6)	3	BIOL	151	General Biology I (SGR #6)	3
BIOL	151L	General Biology I Lab (SGR #6)	1	BIOL	151L	General Biology I Lab (SGR #6)	1
BIOL	153	General Biology II (SGR #6)	3	BIOL	153	General Biology II (SGR #6)	3
BIOL	153L	General Biology II Lab (SGR #6)	1	BIOL	153L	General Biology II Lab (SGR #6)	1
BIOL	202	Genetics and Molecular Biology	3	BIOL	202	Genetics and Molecular Biology	3
BIOL	202L	Genetics and Molecular Biology Lab	1	BIOL	202L	Genetics and Molecular Biology Lab	1
BIOL	204	Introduction to Cell Biology	3	BIOL	204	Introduction to Cell Biology	3
BIOL	204L	Introduction to Cell Biology Lab	1	BIOL	204L	Introduction to Cell Biology Lab	1
BIOL	290	Seminar	1	BIOL	290	Seminar	1
CHEM	112	General Chemistry I (SGR #6)	3	CHEM	112	General Chemistry I (SGR #6)	3
CHEM	112L	General Chemistry I Lab (SGR #6)	1	CHEM	112L	General Chemistry I Lab (SGR #6)	1
CHEM	114	General Chemistry II (SGR #6)	3	CHEM	114	General Chemistry II (SGR #6)	3
CHEM	114L	General Chemistry II Lab (SGR #6)	1	CHEM	114L	General Chemistry II Lab (SGR #6)	1
CHEM	326	Organic Chemistry I	3	CHEM	326	Organic Chemistry I	3
CHEM	326L	Organic Chemistry I Lab	1	CHEM	326L	Organic Chemistry I Lab	1
PHYS	101	Survey of Physics (SGR #6)	3	PHYS	101	Survey of Physics (SGR #6)	3
PHYS	101L	Survey of Physics Lab (SGR #6)	1	PHYS	101L	Survey of Physics Lab (SGR #6)	1
MICR	233	Introductory Microbiology	3	MICR	233	Introductory Microbiology	3
MICR	233L	Introductory Microbiology	1	MICR	233L	Introductory Microbiology	1
Biology Secondary Education Specialization Requirements			16-17	Biology Secondary Education Specialization Requirements			
BOT	201	General Botany	3	BOT	201	General Botany	2
BOT	201L	General Botany Lab	0	BOT	201L	General Botany Lab	1
BIOL	221	Human Anatomy	4	BIOL	221	Human Anatomy	3
BIOL	221L	Human Anatomy Lab	0	BIOL	221L	Human Anatomy Lab	1
BIOL	373	Evolution	3	BIOL	373	Evolution	3
NRM	311	Principles of Ecology	3	NRM	311	Principles of Ecology	3
		Select one of the following courses.	3-4			Select one of the following courses.	3-4

Existing Curriculum

Proposed Curriculum (*highlight changes*)

Prof.	Num.	Title	Cr. Hrs.	Prof.	Num.	Title	Cr. Hrs.
BIOL	325	Physiology	4	BIOL	325	Physiology	3
BIOL	325L	Physiology Lab	0	BIOL	325L	Physiology Lab	1
BIOL	383	Bioethics	4	BIOL	383	Bioethics	4
CHEM	328	Organic Chemistry II	3	CHEM	328	Organic Chemistry II	3
CHEM	328L	Organic Chemistry II Lab	1	CHEM	328L	Organic Chemistry II Lab	1
PHIL	454	Environmental Ethics	3	PHIL	454	Environmental Ethics	3
Teaching Specialization Requirements			37	Teaching Specialization Requirements			40
AIS	211	South Dakota American Indian Culture and Education (SGR 3)	3	AIS	211	South Dakota American Indian Culture and Education (SGR 3)	3
EDFN	101	Exploration of Teaching & Learning	1	EDFN	101	Exploration of Teaching & Learning	1
				EDFN	102	Introduction to Teaching	3
EDFN	340	Adolescent Development in Educational Contexts	3	EDFN	340	Adolescent Development in Educational Contexts	3
EDFN	351	Teaching & Learning I	1	EDFN	351	Teaching & Learning I	1
EDFN	352	Teaching & Learning II	3	EDFN	352	Teaching & Learning II	3
EDFN	352L	Teaching & Learning II Lab	2	EDFN	352L	Teaching & Learning II Lab	2
EDFN	453	Teaching & Learning III	3	EDFN	453	Teaching & Learning III	3
EDFN	453L	Teaching & Learning III Lab	4	EDFN	453L	Teaching & Learning III Lab	4
EDFN	454	Teaching & Learning IV	11	EDFN	454	Teaching & Learning IV	11
SEED	413	7-12 Science Methods (Content Methods)	3	SEED	413	7-12 Science Methods (Content Methods)	3
SEED	450	7-12 Reading and Content Literacy	2	SEED	450	7-12 Reading and Content Literacy	2
SEED	456	Capstone/Action Research	1	SEED	456	Capstone/Action Research	1
				SPED	100	Introduction to Persons with Exceptionalities	3
Electives (Taken as needed to complete any additional degree requirements)			1-4	Electives (Taken as needed to complete any additional degree requirements)			1-4
Summary of Credits Biology (B.S.) – Secondary Education Specialization							
System General Education Requirements			24-26	System General Education Requirements			21-23
Majors Requirements			55-56	Majors Requirements			55-56
Teaching Specialization Requirements			37	Teaching Specialization Requirements			40
Electives (Taken as needed to complete any additional degree requirements)			1-4	Electives (Taken as needed to complete any additional degree requirements)			1-4
Total number of hours required for specialization			95-98	Total number of hours required for specialization			95-98
Total number of hours required for degree			120	Total number of hours required for degree			120

Academic Requirements*Current:*

- A grade of “C” or better is required in CMST 101, ENGL 101, PSYC 101, and MATH 103 or higher (if these courses are in your plan of study), and all courses for the major (classes with department/program prefix).
- An overall GPA of 2.5 is required to enroll in any education courses.

Proposed:

- A grade of “C” or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- A grade of “C” or better is required in academic major coursework (classes with BIOL, BOT, CHEM, MICR, NRM, or PHYS prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.

Acceptance into Teacher Education

- A grade of “C” or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).

- An overall GPA of 2.5 is required.
- A GPA in the academic major of 2.6 is required.
- Completion of program application and professional licensure location form.

Acceptance into Residency I

- A grade of “C” or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis content exam.
- The teacher candidate is also required to complete a criminal background check with field placements, a TB test with negative reading, and CPR and first aid certification.

Acceptance into Residency II

- A grade of “C” or better is required in education coursework (classes with AIS, EDFN, SPED, or SEED prefixes).
- An overall GPA of 2.5 is required.
- A GPA of 2.7 is required in both major and education courses.
- The teacher candidate must take the Praxis PLT exam.

8. Explanation of the Change:

In August 2024, the SDBOR approved the Gateway to Teacher Education Certificate. This 12-credit certificate provides a jumpstart for South Dakota high school students with a career interest in PK-12 teacher education and provides knowledge about teacher education degree programs within South Dakota Regental Institutions. In addition to six credits towards their general education requirements, students will complete EDFN 102 Introduction to Teaching (3 cr.) and SPED 100 Introduction to Persons with Exceptionalities (3 cr.). The certificate is intended to be stackable with elementary, secondary, and special education programs. The Biology - Secondary Education specialization has been revised to incorporate EDFN 102 and SPED 100. EDFN 102 has replaced EDFN 101 Exploration of Teaching & Learning (1 cr.) and EDFN 352L Teaching & Learning II Lab (3 cr.). AIS 211 South Dakota American Indian Culture and Education (3 credits) will satisfy both SGR #3 and teaching specialization requirements. The credit adjustment made it possible to include SPED 100 in the program requirements.

Changes to academic requirements stem from changes to state level certification requirements. Language has been updated to reflect how students in teacher education programs progress through their program requirements toward graduation.