



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

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	B.S.
CURRENT PROGRAM MAJOR/MINOR:	Mathematics
CURRENT SPECIALIZATION:	Teaching Specialization
CIP CODE:	27.0101 – Major CIP 13.1299 – Specialization CIP
UNIVERSITY DEPARTMENT:	Department of Mathematics and Statistics
BANNER DEPARTMENT CODE:	SMAS
UNIVERSITY COLLEGE:	Jerome J. Lohr College of Engineering
BANNER COLLEGE CODE:	3E

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			31	Systems General Education Requirements			28
Systems General Education Requirements - Electives			27	Systems General Education Requirements - Electives			24
		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
		SGR 6 – Natural Sciences	3			SGR 6 – Natural Sciences	3
		SGR 6 – Natural Sciences	3			SGR 6 – Natural Sciences	3
System General Education Requirements - Required			4	System General Education Requirements - Required			4
				AIS	211	South Dakota American Indian Culture and Education (SGR 3) (Teaching Specialization Requirement)	--
MATH	123	Calculus I (SGR 5)	4	MATH	123	Calculus I (SGR 5)	4
Major Requirements			47	Major Requirements			47
MATH	125	Calculus II	4	MATH	125	Calculus II	4
MATH	198	The Mathematics Profession	1	MATH	198	Mathematics Professions 1	1
MATH	225	Calculus III	4	MATH	225	Calculus III	4
MATH	230	Sophomore Seminar	1	MATH	230	Mathematics Professions 2	1
MATH	250	Introduction to Linear Algebra and Proof	3	MATH	250	Introduction to Linear Algebra and Proof	3
MATH	253	Logic, Sets, and Proof	4	MATH	253	Logic, Sets, and Proof	4
MATH	261	Geometry for Teachers	3	MATH	261	Geometry for Teachers	3
				MATH	301	Mathematics Professions 3	2
MATH	316	Discrete Mathematics	3	MATH	316	Discrete Mathematics	3
MATH	355	Methods for Teaching Mathematics	4	MATH	355	Methods for Teaching Mathematics	4
MATH	371	Technology for STEM Educators	2	MATH	371	Technology for STEM Educators	2
MATH	401	Senior Capstone	2	MATH	401	Senior Capstone	2
MATH	413	Abstract Algebra I	3	MATH	413	Abstract Algebra I	3
MATH	425	Real Analysis I	3	MATH	425	Real Analysis I	3
MATH	433	Capstone: Mathematics Education	3	MATH	433	HS Math: Advanced Perspectives	3
MATH	434	Assessment in STEM Education	1	MATH	434	Assessment in STEM Education	1
MATH	450	History of Mathematics	3	MATH	450	History of Mathematics	3
STAT OR STAT	381	Introduction to Probability and Statistics (3)	3	STAT OR STAT	381	Introduction to Probability and Statistics (3)	3
STAT	382	Probability (3)		STAT	382	Probability (3)	
Teaching Specialization Requirements			34	Teaching Specialization Requirements			37
AIS	211	South Dakota American Indian Culture and Education	3	AIS	211	South Dakota American Indian Culture and Education (SGR 3)	3
EDFN	101	Exploration of Teaching & Learning	1	EDFN	401	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 and Lab	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	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

Existing Curriculum

Proposed Curriculum (highlight changes)

Prof.	Num.	Title	Cr. Hrs	Prof.	Num.	Title	Cr. Hrs.
		<i>Electives (Taken as needed to complete any additional degree requirements)</i>	8			<i>Electives (Taken as needed to complete any additional degree requirements)</i>	8
Summary of Credits Mathematics (B.S.) – Teaching Specialization							
		System General Education Requirements	30			System General Education Requirements	28
		Majors Requirements	47			Majors Requirements	47
		Teaching Specialization Requirements	34			Teaching Specialization Requirements	37
		Electives	8			Electives	8
Total number of hours required for specialization			84	Total number of hours required for specialization			88
Total number of hours required for degree			120	Total number of hours required for degree			120

Academic Requirements

Current:

- A grade of “C” or above is required in all Math courses.
- 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 MATH or STAT prefix).
- 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 Mathematics Teaching 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.). As part of the program requirements, students must complete AIS 211 South Dakota American Indian Culture and Education (teaching specialization). AIS 211 will fulfill SGR #3. General Education and Teaching Specialization Requirements were offset by three credits to reflect AIS 211 and 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.

The Department of Mathematics and Statistics has requested to rename the following courses to create a sequence: MATH 198 The Mathematics Profession (1 cr.), MATH 230 Sophomore Seminar (1 cr.). The sequence would be renamed as Mathematics Professions 1, 2, and 3, with the new course MATH 301 Mathematics Professions 3 (2 cr.) added to the sequence. MATH 401 Senior Capstone (2 cr.) will be replaced in the teaching specialization by MATH 301. Additionally, MATH 433 Capstone Math Education (3 cr.) has been renamed to HS Math: Advanced Perspectives.