



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

Substantive Program Modification Form

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

UNIVERSITY:	NSU
CURRENT PROGRAM TITLE:	Mathematics Minor
CIP CODE:	27.0101
UNIVERSITY DEPARTMENT:	Science and Mathematics
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.

Vice President of Academic Affairs or
President of the University

4/15/2021

Date

1. This modification addresses a change in (place an "X" in the appropriate box):

- | | |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input type="checkbox"/> Total credits of elective course work | <input checked="" 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: 8/23/2021

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>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
MATH	123	Calculus I	4	MATH	123	Calculus I	4
MATH	125	Calculus II	4	MATH	125	Calculus II	4
MATH	351	Foundations of Mathematics	3				
Choose Three: (9-10 credits)				Choose Three to Four: (10 credits)			
*Students may not choose more than two at the 200-level				*Students may not choose more than one at the 200-level			
MATH	216	Discrete Structures	3	MATH	216	Discrete Structures	3
MATH	225	Calculus III	4	MATH	225	Calculus III	4
MATH	281	Introduction to Statistics	3				
MATH	321	Differential Equations	3	MATH	321	Differential Equations	3
				MATH	331	Advanced Engineering Math	3
				MATH	351	Foundations of Mathematics	3
MATH	361	Modern Geometry	3	MATH	361	Modern Geometry	3
				MATH	381	Introduction to Probability and Statistics	3
MATH	412	Linear Algebra	3	MATH	412	Linear Algebra	3
MATH	413	Abstract Algebra I	3	MATH	413	Abstract Algebra I	3
MATH	425	Real Analysis I	3	MATH	425	Real Analysis I	3
Total number of hours required for minor			20	Total number of hours required for minor,			18

7. Explanation of the Change:

- The number of credits required for the minor is being reduced to 18 to optimize compliance with the BOR’s general guidelines for an academic minor.
- The requirement regarding no more than two 200-level courses has been amended to no more than one 200-level course to ensure that students take at least two courses at the 300-level or higher, providing a more well-rounded program of student within the minor.
- To better reflect our current course offerings, MATH 331 has been added and MATH 281 has been replaced with MATH 381.
- MATH 351 prepares students for fundamental theoretical aspects of mathematics, which may not fit well with the needs of a student majoring in a social science, a natural science, the fine arts, business and finance, or engineering. Therefore, this class has been moved to the electives. Additionally, MATH 351 is not a required course in the math minor at any of the other SD regental institutions.