SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	**Master of Science (M.S.)**
CURRENT PROGRAM MAJOR/MINOR:	**Mathematics**
CURRENT SPECIALIZATION:	**N/A**
CIP CODE:	**27.0101**
UNIVERSITY DEPARTMENT:	**Mathematics & 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	3/28/2024
Vice President of Academic Affairs or President of the University	Date

1. **This modification addresses a change in:**

   ☒ Total credits required within the discipline ☐ Total credits of supportive course work

   ☒ Total credits of elective course work ☒ Total credits required for program

   ☐ Program name ☐ Existing specialization

   ☐ CIP Code ☐ Other (explain below)

   ☐ Modification requiring Board of Regents approval
   Must have prior approval from Executive Director or designee

2. **Effective date of change: 2024-2025 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.**
MATH AND	575	Operations Research I	6	MATH AND	575	Operations Research I	6
MATH OR	675	Operations Research II		MATH OR	675	Operations Research II	
MATH AND	571	Numerical Analysis I		MATH AND	571	Numerical Analysis I	
MATH OR	770	Numerical Linear Algebra		MATH OR	770	Numerical Linear Algebra	
MATH AND	571	Numerical Analysis I		MATH AND	571	Numerical Analysis I	
MATH	771	Numerical Analysis II		MATH	771	Numerical Analysis II	
MATH	625	Advanced Calculus	3	MATH	625	Advanced Calculus	3
MATH	741	Measure and Probability	3	MATH	741	Measure and Probability	3
MATH	779	Advanced Mathematics Synthesis	1	MATH	779	Advanced Mathematics Synthesis	1
		Select one of the following options:				Select one of the following options:	
		Option A: Thesis				*Thesis*	
MATH	798	Thesis	5	MATH	798	Thesis	5
		Electives	12			Electives	12
		Option B – Research/Design Paper				*Option B – Research/Design Paper*	
MATH	788	Research Problems/Projects	2	MATH	788	Research Problems/Projects	2
		Electives	17			Electives	17
		Option C – Coursework Only				*Non-Thesis*	
		Electives	22			Electives	17

Total number of hours required for degree:			Total number of hours required for degree	
Option A	30		Thesis	30
Option B	32		Non-Thesis	30
Option C	35			

8. Explanation of the Change:

The SDSU Graduate School has revised SDSU Policy 2:17 Credit Requirements for Graduate Credential Programs. The Graduate School adjusted the language to no longer refer to master's programs using Option A (Thesis Option), B (Research/Design Paper Option), C (Coursework Only), and D (Coursework Only – Professional Program) but to move forward with Thesis and Non-Thesis options that will require a minimum of 30 credits. The Department of Mathematics and Statistics has requested to change the non-thesis option from 32 credits (Option B) and 35 credits (Option C) to 30 credits.