SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

Revised Course Request: Common Course
(Substantive Modification)

SDSU	Kurt Cogswell	Suzette Burckhard	11/4/2022
Institution	**Form Initiator**	**Dean's Approval Signature**	**Date**
SDSU	Jerome J. Lohr College of Engineering / Mathematics & Statistics	Dennis D. Hedge	12/6/2022
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**
NSU	Arts & Sciences/ Department of Science and Math	John Long	8/30/2022
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**
USD	Academic Affairs	Elizabeth McKay Freeburg	9/13/2022
Institution	**Division/Department**	**Institutional Approval Signature**	**Date**

Indicate universities that currently offer the common course:
☐ BHSU ☐ DSU ☒ NSU ☐ SDSMT ☐ SDSU[1] ☒ USD

Section 1. Existing Course Title and Description

Prefix & No.	Course Title	Credits
MATH 412	Linear Algebra	3

Course Description
A study of vector spaces, linear transformations, matrices, inner products, eigenvalues, eigenvectors, the methods of solution of systems of linear equations, and applications.

Section 2. Modification(s) Requested

2.1. This modification will include:

☒ **Prerequisites**   MATH 125   to   MATH 125 or MATH 250

Effective term of the change: Fall 2023

2.2. Add justification for all changes noted above:

This request accompanies an Authority to Offer an Existing Course form for approval for SDSU to offer MATH 412. SDSU would like to allow MATH 250 Introduction to Linear Algebra and Proof as an allowed prerequisite for MATH 412 Linear Algebra. MATH 250 would do a good job of preparing students for MATH 412. MATH 250 is a unique course at SDSU, so its addition as a prerequisite will not impact other universities that offer MATH 412 since MATH 125 is also listed as a prerequisite.

Section 3. Other Course Information

3.1. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course database? ☐ Yes ☒ No

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[1] In conjunction with this revised course request, SDSU is submitting an Authority to Offer an Existing Course form for approval to offer MATH 412.

Section 4. Department and Course Codes (Completed by University Academic Affairs)

	Current		New
☐ **Change in Banner Department**	NSU: Science & Mathematics USD: Mathematics	to	NSU: Science & Mathematics SDSU: Mathematics & Statistics USD: Mathematics
☐ **Change in Banner Department Code**	NSCM, UMTH	to	NSCM, SMAS, UMTH
☐ **Change in CIP Code**	27.0101	to	No change

NSU Approval:

From: Trentham, William T
Sent: Tuesday, August 30, 2022 12:55 PM
To: Cogswell, Kurt
Cc: Trentham, Stacy M; Trentham, William T; Long, John A
Subject: signed request form

Hello, Kurt.

Attached is the request form regarding Math 412 you sent to us. It has been signed by our dept chair Dr. John Long, who is being copied here.

Thanks,

-Travis

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Wm. Travis Trentham
Assistant Professor of Mathematics
Office: MJ 217
Fall 2022 Office Hours: *2-3 on MWF & 12:30-2:00 on TR (or by appt.)*
Northern State University
Aberdeen, SD 57401

USD Approval:

From: Freeburg, Beth M
Sent: Tuesday, September 13, 2022 1:56 PM
To: Seefeldt, Teresa
Cc: Leitru, Tammy R; Hoffelt, Janell; Van Peursem, Dan
Subject: USD supports revisions on MATH 412

Dear Teresa,

USD supports the revision to the common course, MATH 412. Thank you for your faculty work in processing the paperwork!

Beth

Elizabeth McKay Freeburg, Ed.S., Ph.D.
Associate Provost and Graduate Dean
University of South Dakota
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