



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

**Revised Course Request: Common Course
(Substantive Modifications)**

<u>SDSU</u> Institution	<u>Donna Flint</u> Form Initiator	<u>Bruce Berdanier</u> Dean's Approval Signature	<u>2/19/2021</u> Date
	Jerome J. Lohr College of Engineering / Mathematics & Statistics		
<u>SDSU</u> Institution	<u>Mathematics & Statistics</u> Division/Department	<u>Dennis D. Hedge</u> Institutional Approval Signature	<u>3/24/2021</u> Date
<u>BHSU</u> Institution	<u>Mathematics</u> Division/Department	<u>Chris Crawford</u> Institutional Approval Signature	<u>5/29/20</u> Date
	College of Arts and Sciences		
<u>DSU</u> Institution	<u>Mathematics</u> Division/Department	<u>Rich Avery</u> Institutional Approval Signature	<u>9/15/20</u> Date
<u>NSU</u> Institution	<u>Mathematics</u> Division/Department	<u>Erin Brownlee</u> Institutional Approval Signature	<u>9/15/20</u> Date
<u>SDSM&T</u> Institution	<u>Mathematics</u> Division/Department	<u>Travis Kowalski</u> Institutional Approval Signature	<u>9/15/20</u> Date
<u>USD</u> Institution	<u>Mathematical Sciences</u> Division/Department	<u>Dan Van Peurseem</u> Institutional Approval Signature	<u>5/27/2020</u> Date

Indicate universities that currently offer the common course:

BHSU DSU NSU SDSMT SDSU USD

Section 1. Existing Course Title and Description

Prefix & No.	Course Title	Credits
MATH 413	Abstract Algebra	3

Course Description
Introduction to the theory and applications of algebraic structures including groups, rings, and fields.

PHYS 187L Course Description
Lab component of PHYS 187.

Section 2. Modification(s) Requested

2.1. This modification will include:

	<u>Current</u>	<u>New</u>
<input checked="" type="checkbox"/> Pre-Requisites	MATH 315 or MATH 316 or MATH 351 or CSC 251	MATH 253 or MATH 315 or MATH 316 or MATH 351 or CSC 251

Effective term of the change: Summer 2021

2.2. Add justification for all changes noted above:

MATH 315 has been removed from the SDSU major requirements, so requests that MATH 253 Logic Sets and Proof be offered as an additional prerequisite. MATH 253 provides sufficient mathematical maturity and basic introduction of proofs that enables students to be well prepared for MATH 413.

Section 3. Other Course Information

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 (Course Inventory Report)? Yes No

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

	Current		New
<input type="checkbox"/> Change in University Department Code	BMTH, DMTH, MMTH, NMTH, SMAS, UMTH	to	No Change
<input type="checkbox"/> Change in CIP Code	27.0102	to	No Change

BHSU Approval:

Donna – Below is an email approval for adding MATH 253 to the prerequisite list for MATH 413 from Dr. Chris Crawford, Provost and VPAA for BHSU.

Pleas let me know if you need anything else from me.

Daluss

Daluss J. Siewert, Ph.D.
Chair, School of Mathematics and Social Sciences
Professor of Mathematics
Black Hills State University
605-642-6209

From: Crawford, Chris
Sent: Friday, May 29, 2020 7:51 PM
To: Siewert, Daluss
Cc: Fuqua, Amy
Subject: RE: [EXT] Common course request changes

Fine with me Daluss.

Sent from my Windows 10 device

From: [Siewert, Daluss](#)
Sent: Friday, May 29, 2020 3:41 PM
To: [Crawford, Chris](#)
Cc: [Fuqua, Amy](#)
Subject: FW: [EXT] Common course request changes

Chris – Below is a request from SDSU to the MDC to add their unique MATH 253 class to the list of acceptable prerequisites MATH 413 at common course for all institutions. We have no concerns about this change. I you approve of this change to this common course, can you email me that approval and I will forward it on to Donna at SDSU.

Thank you,
Daluss

DSU Approval:

From: Avery, Rich
Sent: Monday, September 14, 2020 4:04 PM
To: Flint, Donna

Cc: Palmer, Jeff
Subject: RE: MATH 413

Donna,

I thought we had responded last spring that the math group didn't have any objections at DSU,

NSU Approval:

Good morning,

We at NSU have no objection to adding MATH 253 as a possible pre-req for MATH 413.
Erin Brownlee
NSU

SDSMT Approval:

Kowalski, R. T.

SD Mines has not objection to adding this as a possible prerequisite either.

--Travis

R. Travis Kowalski
Interim Head, Department of Mathematics
South Dakota Mines
605.394.2377
<https://webpages.sdsmt.edu/~rkowalsk>

USD Approval:

From: Van Peurse, Dan
Sent: Friday, May 22, 2020 3:28 PM
To: Dudley, John E
Subject: Fwd: Common course request changes

John,

I am fine with their change over there. Not sure who all has to sign on our end but I am assuming Beth. Thanks
Dan

From: Flint, Donna
Sent: Friday, May 22, 2020 2:28:45 PM
To: Teets, Donald A.; Trentham, Stacy M; Siewert, Daluss; Van Peurse, Dan; Avery, Rich; Brownlee, Erin A; Cogswell, Kurt; Georgescu, Catalin; Kowalski, R. T.; Palmer, Jeff; Swenson, Daniel; Flint, Donna
Subject: Common course request changes

Good afternoon MDC,

SDSU has made a change in our Mathematics program to remove Math 315 (Linear Algebra) as a required course in our program (don't worry, we have linear algebra topics in our Math 250- Introduction to Linear Algebra and Proofs which all majors will take). However, this now leaves us with prerequisite issues for Math 413.

Below is the current common prerequisite listing for Math 413. We would like to add "**or Math 253**," our unique Logic, Sets, and Proof course. This course is now 4 credits and will include Logic, Sets, and proof methods, including basic proofs from Calculus. I have attached the form for this request. If you are willing to make this change, please either solicit a signature from

the appropriate person on your campus, or if the appropriate person on your campus can email approval to you which you forward to me, I'll append that email stream to the form in lieu of a signature.

Thanks in advance for your help, and let me know if you have any questions
Donna Flint

Class Details for Abstract Algebra I Mathematics 413 S01

Term: 202080 | CRN: 85205

Class Details	Catalog Prerequisites						
Course Description	And/Or	Test	Score	Subject	Course Number	Level	Grade
Instructor/Meeting Times	Or			Mathematics	315	Undergraduate	D
Enrollment/Waitlist	Or			Mathematics	316	Undergraduate	D
Restrictions	Or			Mathematics	351	Undergraduate	D
Prerequisites	Or			Computer Science	251	Undergraduate	D
Corequisites							
Cross Listed Courses							
Attributes							
Catalog							
Fees							

Donna Flint, PhD
Professor and Assistant Department Head
Department of Mathematics and Statistics
Jerome J. Lohr College of Engineering