



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

Authority to Offer an Existing Course

NSU

Institution

College of Arts and Science / Department of Science and Mathematics

Division/Department

Michael Weros
Institutional Approval Signature

3/11/2024

Date

1. Is this a request to offer an existing common course or an existing unique course (approval will change course status from unique to common)?

Common Course

Unique Course

2. Provide the complete description as it appears in the system database including pre-requisites and co-requisites.

Prefix & No.	Course Title	Credits
MATH 421	Complex Analysis	3

Course Description
Complex analysis is the study of calculus with the imaginary number included. Topics include the algebra of complex numbers, complex functions, contour integration and Cauchy integral theorems, Taylor and Laurent series and the residue theorem, the evaluation of real definite integrals, elementary mapping problems.

Pre-requisites or Co-requisites (add lines as needed, make sure to copy boxes in Pre-req and Co-req cells)

Prefix & No.	Course Title	Pre-req	Co-req
MATH 225	Calculus 3	Yes	No

3. Universities currently offering this course, or any equated courses (place an "X" in the appropriate boxes):

Please consult any universities indicated below, and attach correspondence with the campus response. Communication and approval should include the Provost's office at the universities currently offering the course.

BHSU DSU NSU SDSMT SDSU USD

4. Does Offering the Course Create FTE Implications? No

If no, Replacement of Schedule Management (deletion form attached)
(prefix, number, name of course, credits)

Effective Date of Deletion: [Click here to enter a date.](#)

5. Does Offering the Course Create Schedule Management Implications? No
Explain: Will be implemented by course rotation schedule.

6. Existing program(s) in which course will be offered: Math Major, Math Minor

7. CIP Code for the course: 27.0101

8. Is the university currently authorized to use the course prefix (i.e., the prefix is used for a minimum of 6 courses, not counting x9x courses) (Yes or No)? Yes

If the university is not authorized to use the current prefix, please indicate the prefix your university will use for the course, which will be equated to the requested course. The university must be approved to use this prefix.:

(Note: If the institution wishes to offer the course with the current prefix, but is not authorized to do so, AAC Guidelines Form 1.10 – New Prefix Request Form must be submitted along with this request.)

9. Proposed instructional method by this university: Lecture (R)

10. Proposed delivery method by this university: Face-to-face N01

11. University Dept. Code: Science and Mathematics

Banner Department Code: NSCM

12. Authority to offer effective beginning in what term? Fall 2024

13. Section Restriction: Maximum Occupancy = 28

RE: [EXT] Math 421

Kowalski, R. T. <travis.kowalski@sdsmt.edu>

Fri 1/19/2024 11:46 AM

To:Trentham, Stacy M <Stacy.Trentham@northern.edu>

CAUTION: This email originated from outside of NSU. Do not click links or open attachments unless you recognize the sender and know the content is safe. DO NOT provide your username and password.

SD Mines has no issue with this. The more complex analysis, the merrier!

--Travis

Travis Kowalski (he/him/his), Professor & Department Head
Mathematics

South Dakota Mines

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From: Trentham, Stacy M <Stacy.Trentham@northern.edu>

Sent: Friday, January 19, 2024 10:37 AM

To: Swenson, Daniel <daniel.swenson@bhsu.edu>; Garnett, Colin <colin.garnett@bhsu.edu>; Kowalski, R. T. <travis.kowalski@sdsmt.edu>

Subject: [EXT] Math 421

*** This email is from an EXTERNAL sender. Use CAUTION before opening attachments or clicking links.***

Good morning!

We would like to add Math 421 (Complex Analysis) into our rotation. It appears that BHSU and SDSMT are currently the only two schools with authority to offer this course. Are you all okay with us submitting the paperwork for authorization to offer this course?

Thanks!
Stacy

Stacy Trentham, PhD

Associate Professor of Mathematics
Northern State University
MJ 216