



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

Authority to Offer an Existing Course

NSU
Institution

Science and Math
Division/Department

Michael Werous
Institutional Approval Signature

1/31/2020
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
CHEM 465 and CHEM 465L	Biochemistry II and Biochemistry II Lab	Lecture: 3 Lab: 1

Course Description
Lecture: A continuation of CHEM 464. Lab: This course will focus on the Biophysical and Thermodynamic nature of nucleic acids and proteins. Specific emphasis will be placed on the design, synthesis, and thermodynamic analysis of an RNA model system. The aim of the course will be to provide the student with a solid basis in the thermodynamics of folding of biologically important macromolecules.

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
CHEM 464	Biochemistry I (Required for lecture)	Yes	No
CHEM 465	Biochemistry II (Lecture required for Lab.)	Yes	Yes

3. Universities currently offering this course (place an "X" in the appropriate boxes):

- BHSU DSU NSU SDSMT SDSU USD
 Lecture/Lab Lecture/Lab Lecture

Re: Biochemistry I and II

Raynie, Douglas <Douglas.Raynie@SDSTATE.EDU>

Tue 11/19/2019 4:36 PM

To: Kiesow, Alyssa <Alyssa.Kiesow@northern.edu>

Cc: Mitchell, Jon C <JON.MITCHELL@NORTHERN.EDU>

2 attachments (272 KB)

CHEM464-Fall 2019-Syllabus.pdf; CHEM465_SYLLABUS_2019S_Chakravarty.pdf;

Attached is the course syllabus for each of these courses. I suggest that the instructor(s) have a strong biochemistry background. We support your endeavors. Let me know if I can be of further assistance.

Doug

South Dakota State
University

Douglas Raynie

Associate Professor and Department Head

Departments of Chemistry & Biochemistry and Physics

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From: Kiesow, Alyssa <Alyssa.Kiesow@northern.edu>

Sent: Tuesday, November 19, 2019 3:10 PM

To: Raynie, Douglas <Douglas.Raynie@SDSTATE.EDU>

Cc: Mitchell, Jon C <jon.mitchell@northern.edu>

Subject: Biochemistry I and II

Hi Dr. Raynie,

To acquaint myself, I am the department chair for the department of Science and Math at Northern State University. Our department would like to offer CHEM 464 (Biochemistry I) and CHEM 465 (Biochemistry II) next academic year as part of an effort to build a biochemistry program and create more specific course work tailored to job market needs. We are in the process of hiring a faculty member who specializes in chemical sciences, so this course would be taught by this highly qualified faculty member.

We are submitting an authority to offer form to begin offering these courses next fall. We need your input on currently offers these courses, and are interested in your supportive feedback with our endeavors. If you would like additional details regarding the course, please let me know. I appreciate your time, and look forward to hearing from you.

Sincerely,

Alyssa Kiesow

4. Does Offering the Course Create FTE Implications? No

If no, Replacement of _____ (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? Yes _____

Explain: We will make course load adjustments with existing and new chemistry faculty to allow for a yearlong offering of Biochemistry (i.e., Biochemistry I and II). By offering a yearlong Biochemistry course, we can support a proposed BS in Biochemistry degree, and prepare students in the fields of biology and chemistry.

6. Existing program(s) in which course will be offered: BS in Chemistry and BS in Biology
(and future BS in Biochemistry)

7. CIP Code for the course: 26.0202

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

9. Proposed delivery method by this university: Face-to-Face (N01)

10. University Dept. Code: NCHPH

Banner Department Code: NCHP

11. Authority to offer effective beginning in what term? Fall 2020

12. Section Restriction: 16-20 students