



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

**Substantive Program Modification Form**

Use this form to request minor changes in existing programs (majors, minors, certificates, or specializations).

|                                |                              |
|--------------------------------|------------------------------|
| <b>UNIVERSITY:</b>             | NSU                          |
| <b>CURRENT PROGRAM TITLE:</b>  | BSEd Chemistry               |
| <b>CIP CODE:</b>               | 26.0101                      |
| <b>UNIVERSITY DEPARTMENT:</b>  | Science and Mathematics      |
| <b>BANNER DEPARTMENT CODE:</b> | NCHP                         |
| <b>UNIVERSITY DIVISION:</b>    | College of Arts and Sciences |
| <b>BANNER DIVISION CODE:</b>   | 5A                           |

**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.*



Vice President of Academic Affairs or  
President of the University

10/9/2020

Date

**1. This modification addresses a change in (place an "X" in the appropriate box):**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input type="checkbox"/> Total credits of elective course work                   | <input type="checkbox"/> Total credits required for program      |
| <input type="checkbox"/> Program name  | <input type="checkbox"/> Existing specialization                 |
| <input type="checkbox"/> CIP Code  | <input type="checkbox"/> Other (explain below)                   |

**2. Effective date of change: 8/20/2021**

**3. Program Degree Level (place an "X" in the appropriate box):**

Associate ☐ Bachelor's ☒ Master's ☐ Doctoral ☐

**4. Category (place an "X" in the appropriate box):**

Certificate ☐ Specialization ☐ Minor ☐ Major ☒

**5. If a name change is proposed, the change will occur (place an “X” in the appropriate box):**

- ☐ 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:** \_\_\_\_\_

*Reminder: Name changes may require updating related articulation agreements, site approvals, etc.*

**6. Primary Aspects of the Modification (add lines or adjust cell size as needed):**

| <i>Existing Curriculum</i>   |       |  |          | <i>Proposed Curriculum (highlight changes)</i>                     |              |  |          |
|--|-------|--|----------|--|--------------|--|----------|
| Pref.  | Num.  | Title  | Cr. Hrs. | Pref.  | Num.         | Title  | Cr. Hrs. |
| IDL  | 190   | First-Year Seminar   | 2        | IDL  | 190          | First-Year Seminar   | 2        |
| CHEM   | 130   | Success in Science   | 1        | CHEM   | 130          | Success in Science   | 1        |
| CHEM   | 112/L | General Chemistry I  | 4        | CHEM   | 112/L        | General Chemistry I  | 4        |
| CHEM   | 114/L | General Chemistry II   | 4        | CHEM   | 114/L        | General Chemistry II   | 4        |
| CHEM   | 326/L | Organic Chemistry I  | 4        | CHEM   | 326/L        | Organic Chemistry I  | 4        |
| CHEM   |       | Choose one:<br>Organic Chemistry II (328/L)<br>or Biochemistry (460/L) | 4        | CHEM   |              | Choose one:<br>Organic Chemistry II (328/L) or <b>Biochemistry I (464/L)</b> | 4        |
| CHEM   | 332/L | Analytical Chemistry   | 4        | CHEM   | 332/L        | Analytical Chemistry   | 4        |
| CHEM   | 342   | Physical Chemistry I   | 3        | CHEM   | <b>342/L</b> | <b>Physical Chemistry I</b>  | <b>4</b> |
| CHEM   | 344   | Physical Chemistry II  | 3        | CHEM   | <b>344/L</b> | <b>Physical Chemistry II</b>   | <b>4</b> |
| CHEM   | 452/L | Inorganic Chemistry  | 4        | CHEM   | 452/L        | Inorganic Chemistry  | 4        |
| MATH   | 123   | Calculus I   | 4        | MATH   | 123          | Calculus I   | 4        |
| CHEM   | 490   | Senior Seminar   | 1        | CHEM   | 490          | Senior Seminar   | 1        |
| CHEM   | 498   | Undergraduate Research   | 1        | CHEM   | 498          | Undergraduate Research   | 1        |
| Total number of hours required for major, minor, or specialization |       |  | 43       | Total number of hours required for major, minor, or specialization |              |  | 45       |
| Total number of hours required for degree                          |       |  | 120      | Total number of hours required for degree                          |              |  | 120      |

**7. Explanation of the Change:**

We now offer a year-long sequence in Biochemistry. We are requiring only the first semester for this degree (CHEM 464). Adding the labs to the two Physical Chemistry courses will provide students additional skills in Chemistry, giving them more methods for teaching Chemistry.