



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

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	SDSU
<b>CURRENT PROGRAM DEGREE:</b>	Ph.D.
<b>CURRENT PROGRAM MAJOR/MINOR:</b>	Chemistry
<b>CURRENT SPECIALIZATION:</b>	N/A
<b>CIP CODE:</b>	40.0501
<b>UNIVERSITY DEPARTMENT:</b>	Chemistry, Biochemistry and Physics
<b>BANNER DEPARTMENT CODE:</b>	SCBP
<b>UNIVERSITY COLLEGE:</b>	Natural Sciences
<b>BANNER COLLEGE CODE:</b>	3T

**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.*

Dennis D. Hedge

3/26/2025

Vice President of Academic Affairs or  
President of the University

Date

**1. This modification addresses a change in:**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline   | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" 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                                   |
| <input type="checkbox"/> Modification requiring Board of Regents approval<br><i>Must have prior approval from Executive Director or designee</i> |  |

**2. Effective date of change: 2025-2026 Academic Year**

**3. Program Degree Level:**

Associate  Bachelor's  Master's  Doctoral

**4. Category:**

Certificate  Specialization  Minor  Major

**5. If a name change is proposed, the change will occur:**

- 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:

**6. Is the program being modified associated with a current articulation agreement?**

Yes  No

- a. If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain: N/A

## 7. Primary Aspects of the Modification:

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
<b>60 credit plan</b>			60	<b>60 credit plan</b>			60
CHEM	790	Seminar (Research)	2	CHEM	790	Seminar (Research)	2
		CHEM 898D Dissertation (minimum of 18 credits) and/or other coursework as required by Graduate Student Advisory Committee	58			CHEM 898D Dissertation (minimum of 18 credits) and/or other coursework as required by Graduate Student Advisory Committee	58
<b>90 credit plan</b>			90	<b>90 credit plan</b>			90
		Select 4 of the following 5 courses:	12			Core courses (4 of 5 required):	12
CHEM	701	Advanced Organic Chemistry I (3)		CHEM	701	Advanced Organic Chemistry I (3)	
CHEM	703	Advanced Physical Chemistry (3)		CHEM	703	Advanced Physical Chemistry (3)	
CHEM	704	Advanced Inorganic Chemistry (3)		CHEM	704	Advanced Inorganic Chemistry (3)	
CHEM	705	Principles of Biochemistry (3)		CHEM	705	Principles of Biochemistry (3)	
CHEM	706	Advanced Analytical Chemistry (3)		CHEM	706	Advanced Analytical Chemistry (3)	
CHEM	707	Chemical Communication Skills	2	CHEM	707	Chemical Communication Skills	2
CHEM	760	Laboratory Rotations	2	CHEM	760	Laboratory Rotations	2
CHEM	790	Seminar	3	CHEM	790	Seminar	3
CHEM	898D	Dissertation	62	CHEM	898D	Dissertation	64
				GSR	601	Research Regulation Compliance	1
		Research Coursework	9			Elective Coursework Courses must be selected from STEM disciplines	6
Total number of hours required for degree			60-90	Total number of hours required for degree			60-90

## 8. Explanation of the Change:

The Department of Chemistry, Biochemistry and Physics has requested the following changes to the Ph.D. in Chemistry:

- Faculty voted to add GSR 601 to the program because all graduate students perform research, therefore it is important to provide them with foundational knowledge about current and pending regulatory guidelines for research. This class was already required for the Biochemistry Ph.D. so the addition of it to the Chemistry Ph.D. also aligns the degree requirements for both Ph.D. programs in the department.
- The change in the number of elective credits from 9 to 6 was made in part to account for the additional GSR 601 course, but also to provide more flexibility. Students are allowed to exceed the minimum requirement of 6 credits of electives if agreed upon by the student and their Graduate Student Advisory Committee.
- The number of dissertation credits was adjusted to maintain 90 total credits in the program.