



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

New Undergraduate Degree Program

UNIVERSITY:	USD
MAJOR:	Biochemistry
EXISTING OR NEW MAJOR(S):	New
DEGREE:	B.S.
EXISTING OR NEW DEGREE(S):	Existing
INTENDED DATE OF IMPLEMENTATION:	Fall 2021
PROPOSED CIP CODE:	26.0202
SPECIALIZATIONS: <i>Note: If the new proposed program includes specific specializations within it, complete and submit a New Specialization Form for each proposed specialization and attach it to this form. Since specializations appear on transcripts, they require Board approval.</i>	N/A
IS A SPECIALIZATION REQUIRED (Y/N):	No
DATE OF INTENT TO PLAN APPROVAL:	12/9/2020
UNIVERSITY DEPARTMENT:	Chemistry [UCHM]
UNIVERSITY DIVISION:	Arts & Sciences [2A]

Please check this box to confirm that:

- The individual preparing this request has read [AAC Guideline 2:9](#), which pertains to new undergraduate degree program requests, and that this request meets the requirements outlined in the guidelines.
- This request will not be posted to the university website for review of the Academic Affairs Committee until it is approved by the Executive Director and Chief Academic Officer.

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.

_____ Click here to enter a date.

President of the University Date

1. What is the nature/purpose of the proposed program? Please include a brief (1-2 sentence) description of the academic field in this program.

The University of South Dakota (USD) seeks approval to implement a Bachelor of Science (BS) degree in Biochemistry, to be housed within the Department of Chemistry. This new major will provide students with current and practical knowledge related to the areas of biochemistry, chemistry, and biology, utilizing already existing course work and faculty from the Departments of Chemistry and Biology in the USD College of Arts & Sciences and the Division of Basic Biomedical Sciences (BBS) in the USD Medical School.

2. How does the proposed program relate to the university’s mission and strategic plan, and to the current Board of Regents Strategic Plan 2014-2020?

The statutory mission of the University of South Dakota is provided in SDCL 13-57-1:

Designated as South Dakota’s liberal arts university, the University of South Dakota, established and located at Vermillion, in Clay County, shall be under the control of the Board of Regents and shall provide undergraduate and graduate programs of instruction in the liberal arts and sciences and professional education in business, education, fine arts, law and medicine, and other courses or programs as the Board of Regents may determine.

The mission provided in BOR Policy 1:10:1 for the University of South Dakota:

The legislature established The University of South Dakota as the liberal arts university to meet the needs of the State and region by providing undergraduate and graduate programs in the liberal arts and sciences, and professional education in business, education, fine arts, law, and medicine, and other courses or programs as the Board of Regents may determine. (SDCL 13-57-1). The Board implemented SDCL 13-57-1 by authorizing undergraduate and graduate programs in the liberal arts and sciences and in professional education and by requiring the University to promote excellence in teaching and learning, to support research, scholarly and creative activities, and to provide service to the State of South Dakota, the region, and beyond.

Both the statutory mission and Board of Regents mission statement for the University of South Dakota designate the institution as the Liberal Arts University for the State of South Dakota and as the location of the state’s only medical school. As such, USD is ideally suited to offer an interdisciplinary program in biochemistry, which draws upon the disciplinary strengths of existing academic expertise in Chemistry, Biology, and Basic Biomedical Sciences, as well as the research and laboratory opportunities afforded by the faculty in these programs, serving as a recruitment tool for increasing undergraduate enrollment.

3. Describe the workforce demand for graduates of the program, including national demand and demand within South Dakota. Provide data and examples; data sources may include but are not limited to the South Dakota Department of Labor, the US Bureau of Labor Statistics, Regental system dashboards, etc. Please cite any sources in a footnote.

The USD Chemistry Department currently offers the BS Coordinate degree as well as a BS degree approved by the American Chemical Society (ACS), which is the primary accrediting agency for all chemistry programs in the United States. The department also offers a 3+2 accelerated BS/MS combination, an MS degree, and a PhD degree in Materials Chemistry. A new major in biochemistry would focus on our strength in materials chemistry as applied to biological systems, preparing students for post-graduate programs in medicine, dentistry, and veterinary practice, and careers in all bio-related fields including the pharmaceutical industry.

Statewide SD Occupational Employment Projections (2018-2028): Website accessed 9/22/2020.¹

Life, physical and social science occupations	+10.1%
Life, physical and social science technicians	+8.1%
Life scientists	+12.8%
Chemists	+12.0%
Medical Scientists	+14.7%

¹ https://dlr.sd.gov/lmic/documents/occupational_projections_2018_2028_statewide_south_dakota.pdf

4. How will the proposed program benefit students?

The predominant benefit is providing a degree in Biochemistry where none currently exists. Despite the presence of related programs at other BOR institutions, USD's profile as a research-intensive university, its related undergraduate and graduate programs in Chemistry, Biology, and Basic Biomedical Sciences, and the fact that all necessary courses for this program are currently offered support the creation of this major as a valuable credential for those current and future USD students who wish to pursue biochemistry. A biochemistry major will prepare students for several professional paths, including graduate study in biochemistry or biomedical sciences; professional study in medicine or dentistry; and careers in the life sciences, biochemistry, pharmaceutical or biomedical industries.

5. Program Proposal Rationale:

A. If a new degree is proposed, what is the rationale? *This question refers to the type of degree, not the program. For example, if your university has authorization to offer the Bachelor of Science and the program requested is a Bachelor of Science, then the request is not for a new degree.*

N/A

B. What is the rationale for the curriculum?

Yearlong sequences in introductory calculus, physics, general biology and general chemistry are followed by one semester of Organic Chemistry (CHEM 310/L) and Organic Chemistry of Biomolecules (CHEM 330). This prepares students to take Analytical Chemistry, Physical Chemistry, and Biochemistry courses. Students will take one elective in advanced chemistry courses + lab, plus one elective in advanced biology or biochemistry offerings. A Chemical Literature capstone course is required as a senior, for a total of 65-66 credit hours in the Biochemistry major. This compares to 54-55 credits required for the already existing Coordinate major and 69 credit hours for the ACS approved chemistry major.

C. Demonstrate/provide evidence that the curriculum is consistent with current national standards. *Complete the tables below and explain any unusual aspects of the proposed curriculum?*

D. Summary of the degree program (complete the following tables):

² <https://www.bls.gov/ooh/life-physical-and-social-science/biochemists-and-biophysicists.htm#:~:text=Employment%20of%20biochemists%20and%20biophysicists,the%20average%20for%20all%20occupations.>

Biochemistry, B.S.	Credit Hours	Credit Hours	Percent
System General Education Requirements	30 (-6)		
Subtotal, Degree Requirements		30	25%
Required Support Courses (not included above)	18-20	18-20	15-17%
Major Requirements	38		32%
Major Electives	7-8		6-7%
Subtotal, Program Requirements		65-66	54-55%
Free Electives		22-25	18-21%
<p style="text-align: right;">Degree Total</p> <p><i>Board Policy 2:29 requires each baccalaureate level degree program to require 120 credit hours and each associate degree program to require 60 credit hours. Exceptions to this policy require documentation that programs must comply with specific standards established by external accreditation, licensure, or regulatory bodies or for other compelling reasons, and must receive approval by the Executive Director in consultation with the President of the Board of Regents.</i></p>		120	100%

Required Support Courses Outside the Major

(Not general education requirements)

Prefix	Number	Course Title	Credit Hours	New (yes, no)
MATH	123/L	Calculus I & Lab	5	No
MATH	125L	Calculus II & Lab	5	No
PHYS	111/L or 211/L	Physics I & Lab	4-5	No
PHYS	113/L or 213/L	Physics II & Lab	4-5	No
Subtotal			18-20	

Major Requirements

Prefix	Number	Course Title	Credit Hours	New (yes, no)
CHEM	112/L	General Chemistry I & Lab	4	No
CHEM	114/L or 116/L	General Chemistry II or Honors Chemistry & Lab	4	No
BIOL	151/L	General Biology I & Lab	4	No
BIOL	153/L	General Biology II & Lab	4	No
CHEM	310/L	Fundamental Organic Chemistry & Lab	5	No
CHEM	330	Organic Chemistry of Biomolecules	3	No
CHEM	332/L	Analytical Chemistry & Lab	4	No
CHEM	442	Physical Chemistry I	3	No
BIOC	430	Principles of Biochemistry	3	No
BIOC	431	Principles of Biochemistry Lab	1	No
CHEM	472	Chemical Literature I	2	No
CHEM	474	Chemical Literature II	1	No
Subtotal			38	

Major Electives: List courses available as electives in the program. Indicate any proposed new courses added specifically for the major.

Prefix	Number	Course Title (add or delete rows as needed)	Credit Hours	New (yes, no)
Choose One Chemistry Elective				
CHEM	434/L	Instrumental Analysis & Lab	4	No
CHEM	444/442L	Physical Chemistry II and Physical Chemistry Lab	4	No
CHEM	452/L	Inorganic Chemistry & Lab	4	No
Choose One Biochemistry/Biology Elective				
MICR	230/232	Basic Microbiology	4	No
BIOL	425	Cellular Physiology	3	No
BIOL	427/L	Plant Physiology & Lab	4	No
BIOL	428/L	Comparative Physiology & Lab	4	No
BIOL	443	Cell Biology	3	No
BIOL	475/L	Intro to Molecular Biology & Lab	4	No
BIOL	471	Genetics	3	No
Subtotal			7-8	

Students completing the Biochemistry major may not also complete the Chemistry major, due to College of Arts & Sciences restrictions on the total number of credit hours in one discipline.

6. Student Outcomes and Demonstration of Individual Achievement

A. What specific knowledge and competencies, including technology competencies, will all students demonstrate before graduation? *The knowledge and competencies should be specific to the program and not routinely expected of all university graduates, and must relate to the proposed assessments in B and C below. Complete the table below to list specific learning outcomes—knowledge and competencies—for courses in the proposed program in each row. Label each column heading with a course prefix and number. Indicate required courses with an asterisk (*). Indicate with an X in the corresponding table cell for any student outcomes that will be met by the courses included. All students should acquire the program knowledge and competencies regardless of the electives selected. Modify the table as necessary to provide the requested information for the proposed program.*

In demonstrating the following discipline-specific core competencies related to study of Biochemistry, students will:

- Understand the principles and application of biochemistry using a multidisciplinary approach;
- Analyze and interpret data and scientific literature in addressing research questions related to the field of biochemistry;
- Conduct experiments to solve scientific questions;
- Communicate scientific knowledge within an academic context.

In addition, the Biochemistry major will require students to meet specific learning outcomes associated with the following cross-curricular skills, as required by the South Dakota Board of Regents:

- Inquiry and Analysis
- Critical and Creative Thinking
- Information Literacy
- Problem Solving
- Integrative Learning

	Program Courses that Address the Outcomes						
Individual Student Outcome (Same as in the text of the proposal) Students will:	CHEM 112/L	CHEM 114/L or 116/L	BIOL 151/L	BIOL 153/L	CHEM 310/L	CHEM 330	
Understand the principles and application of biochemistry using a multidisciplinary approach;	X	X	X	X	X	X	
Analyze and interpret data and scientific literature in addressing research questions related to the field of biochemistry	X	X	X	X	X	X	
Conduct experiments to solve scientific questions	X	X	X	X	X		
Communicate scientific knowledge within an academic context							
	Program Courses that Address the Outcomes						
Individual Student Outcome (Same as in the text of the proposal) Students will:	CHEM 332/L	CHEM 442	BIOC 430	BIOC 431	CHEM 472	CHEM 474	Electives
Understand the principles and application of biochemistry using a multidisciplinary approach;	X	X	X	X	X	X	X
Analyze and interpret data and scientific literature in addressing research questions related to the field of biochemistry	X	X	X	X	X	X	X
Conduct experiments to solve scientific questions	X						X
Communicate scientific knowledge within an academic context					X	X	

Modify the table as necessary to include all student outcomes. Outcomes in this table are to be the same ones identified in the text.

B. Are national instruments (i.e., examinations) available to measure individual student achievement in this field? If so, list them.

Yes. The American Chemical Society produces two national biochemistry exams with national norms. One exam is for completion of a one semester biochemistry course and the other is for a two semester biochemistry course. New exams are introduced every five years. Offering the ACS exam may not be the practice of the BBS program that teaches Biochemistry.

C. How will individual students demonstrate mastery? Describe the specific examinations and/or processes used, including any external measures (including national exams, externally evaluated portfolios, or student activities, etc.). What are the consequences for students who do not demonstrate mastery?

National ACS exams are available as final exams for all advanced chemistry courses, including biochemistry. They are already given in organic, analytical, instrumental analysis, and inorganic chemistry. The expectation is that all majors will score above the 50th national percentile. The results from previous years is included below.

ACS Examination Scores	Expectation	2017	2018	2019
Organic	>50.0%	52%	46%	N/A*
Analytical	>50.0%	67%	68%	59%
Instrumental	>50.0%	N/A*	55%	65%
Inorganic	>50.0%	69%	59%	N/A*

*2019-2020 ACS exams were not offered due to the Covid-19 pandemic. ACS does not allow ACS exams to be offered remotely.

The Chemical Literature capstone course teaches technology to search chemistry/biochemistry databases to obtain citations and journal articles. These citations are used to 1) write a mock research paper using unpublished research data provided by the instructor, 2) write a 15-page research page on a subject not related to their own research (if students are involved in research project with a professor) and 3) make a 20 minute oral presentation on the same subject. This format easily translates to biochemistry topics.

7. What instructional approaches and technologies will instructors use to teach courses in the program? *This refers to the instructional technologies and approaches used to teach courses and NOT the technology applications and approaches expected of students.*

All of these courses are taught F2F, and do not require technology to deliver remotely.

8. Did the University engage any developmental consultants to assist with the development of the curriculum? Did the University consult any professional or accrediting associations during the development of the curriculum? What were the contributions of the consultants and associations to the development of curriculum? *(Developmental consultants are experts in the discipline hired by the university to assist with the development of a new program, including content, courses, and experiences, etc. Universities are encouraged to discuss the selection of developmental consultants with Board staff.)*

No

- 9. Are students enrolling in the program expected to be new to the university or redirected from other existing programs at the university? Complete the table below and explain the methodology used in developing the estimates (replace “XX” in the table with the appropriate year). If question 12 includes a request for authorization for off-campus or distance delivery, add lines to the table for off-campus/distance students, credit hours, and graduates.**

<i>Estimates</i>	Fiscal Years*			
	1st	2nd	3rd	4th
	FY 22	FY 23	FY 24	FY 25
Students new to the university	5	8	10	10
Students from other university programs	10	10	10	10
Continuing students	0	10	18	25
=Total students in the program (fall)	15	28	38	45
Program credit hours (major courses)**	180	336	456	540
Graduates	2	5	8	12

*Do not include current fiscal year.

**This is the total number of credit hours generated by students in the program in the required or elective program courses. Use the same numbers in Appendix B – Budget.

These estimates are based on current student interest in Biochemistry courses and programs, and assume that some current and future students will choose to pursue double majors with Biology and Medical Biology. Students will not be able to double major in Chemistry and Biochemistry due to the Arts & Sciences restriction on the total number of credit hours in one discipline.

- 10. Is program accreditation available? If so, identify the accrediting organization and explain whether accreditation is required or optional, the resources required, and the University’s plans concerning the accreditation of this program.**

This is not an ACS-approved degree, as the department already offers an ACS-approved degree in chemistry that includes a foundational biochemistry course (CHEM 330, Organic Chemistry of Biomolecules) and an in-depth Biochemistry course (BIOC 430, Biochemistry I) required for approval. The American Society for Biochemistry and Molecular Biology (ASBMB) offers accreditation for Biochemistry programs, but such accreditation is optional, and the department does not intend to seek accreditation at this time. Only 90 biochemistry/molecular biology programs across the nation have this accreditation (including SDSU), as compared to 690 ACS approved chemistry programs in 2020. Students will not be disadvantaged by the absence of accreditation at the undergraduate level, given the demand for graduates with STEM degrees and the overall strength of USD’s related programs.

- 11. Does the University request any exceptions to any Board policy for this program? Explain any requests for exceptions to Board Policy. If not requesting any exceptions, enter “None.”**

No

12. Delivery Location

Note: The accreditation requirements of the Higher Learning Commission (HLC) require Board approval for a university to offer programs off-campus and through distance delivery.

- A. Complete the following charts to indicate if the university seeks authorization to deliver the entire program on campus, at any off campus location (e.g., UC Sioux Falls, Capital University Center, Black Hills State University-Rapid City, etc.) or deliver the entire program through distance technology (e.g., as an online program)?

	Yes/No	Intended Start Date
On campus	Yes	Fall 2021

	Yes/No	If Yes, list location(s)	Intended Start Date
Off campus	No		

	Yes/No	If Yes, identify delivery methods <i>Delivery methods are defined in AAC Guideline 5.5.</i>	Intended Start Date
Distance Delivery (online/other distance delivery methods)	No		
Does another BOR institution already have authorization to offer the program online?	No	If yes, identify institutions:	

- B. Complete the following chart to indicate if the university seeks authorization to deliver more than 50% but less than 100% of the program through distance learning (e.g., as an online program)? This question responds to HLC definitions for distance delivery.

	Yes/No	If Yes, identify delivery methods	Intended Start Date
Distance Delivery (online/other distance delivery methods)	No		

13. Cost, Budget, and Resources: Explain the amount and source(s) of any one-time and continuing investments in personnel, professional development, release time, time redirected from other assignments, instructional technology & software, other operations and maintenance, facilities, etc., needed to implement the proposed major. Address off-campus or distance delivery separately. Complete Appendix B – Budget and briefly summarize to support Board staff analysis.

None. All courses are currently being offered in Biology, Biochemistry and Chemistry in normal course rotations.

14. Is the university requesting or intending to request permission for a new fee or to attach an existing fee to the program (place an "X" in the appropriate box)? If yes, explain.

- Yes No

Explanation (if applicable):

15. New Course Approval: New courses required to implement the new undergraduate degree program may receive approval in conjunction with program approval or receive approval separately. Please check the appropriate statement:

- YES,
the university is seeking approval of new courses related to the proposed program in conjunction with program approval. All New Course Request forms are included as Appendix C and match those described in section 5D.
- NO,
the university is not seeking approval of all new courses related to the proposed program in conjunction with program approval; the institution will submit new course approval requests separately or at a later date in accordance with Academic Affairs Guidelines.

Appendix A
Student Learning Outcomes

Individual Student Outcomes and Program Courses

	Program Courses that Address the Outcomes						
Individual Student Outcome (Same as in the text of the proposal)	CHEM 112/L	CHEM 114/L or 116/L	BIOL 151/L	BIOL 153/L	CHEM 310/L	CHEM 330	
Students will:							
Understand the principles and application of biochemistry using a multidisciplinary approach;	X	X	X	X	X	X	
Analyze and interpret data and scientific literature in addressing research questions related to the field of biochemistry	X	X	X	X	X	X	
Conduct experiments to solve scientific questions	X	X	X	X	X		
Communicate scientific knowledge within an academic context							
	Program Courses that Address the Outcomes						
Individual Student Outcome (Same as in the text of the proposal)	CHEM 332/L	CHEM 442	BIOC 430	BIOL 431	CHEM 472	CHEM 474	Electives
Students will:							
Understand the principles and application of biochemistry using a multidisciplinary approach;	X	X	X	X	X	X	X
Analyze and interpret data and scientific literature in addressing research questions related to the field of biochemistry	X	X	X	X	X	X	X
Conduct experiments to solve scientific questions	X	X					X
Communicate scientific knowledge within an academic context					X	X	

Appendix B
Budget & Resources

University of South Dakota, B.S. in Biochemistry

1. Assumptions

Headcount & hours from proposal

	1st FY22	2nd FY23	3rd FY24	4th FY25
Fall headcount (see table in proposal)	15	28	38	45
Program FY cr hrs, On-Campus*	6,353	6,509	6,629	6,713
Program FY cr hrs, Off-Campus	0	0	0	0

Faculty, Regular FTE	See p. 3	2.00	2.00	2.00	2.00
Faculty Salary & Benefits, average	See p. 3	\$99,530	\$99,530	\$99,530	\$99,530

Faculty, Adjunct - number of courses	See p. 3	0	0	0	0
Faculty, Adjunct - per course	See p. 3	\$4,478	\$4,478	\$4,478	\$4,478

Other FTE (see next page)	See p. 3	0.00	0.00	0.00	0.00
Other Salary & Benefits, average	See p. 3	\$8,470	\$8,470	\$8,470	\$8,470

*includes cr. hrs delivered in most recent FY (6,173) plus projected credits

2. Budget

Salary & Benefits

Faculty, Regular		\$199,060	\$199,060	\$199,060	\$199,060
Faculty, Adjunct (rate x number of courses)		\$0	\$0	\$0	\$0
Other FTE		\$0	\$0	\$0	\$0
S&B Subtotal		\$199,060	\$199,060	\$199,060	\$199,060

Operating Expenses

Travel		\$0	\$0	\$0	\$0
Contractual Services		\$0	\$0	\$0	\$0
Supplies & materials		\$0	\$1,000	\$5,000	\$5,000
Capital equipment		\$0	\$5,000	\$1,000	\$1,000
OE Subtotal		\$0	\$6,000	\$6,000	\$6,000
Total		\$199,060	\$205,060	\$205,060	\$205,060

3. Program Resources

Off-campus support tuition/hr, HEFF net	UG	\$399.05	\$399.05	\$399.05	\$399.05
Off-campus tuition revenue	hrs x amt	\$0	\$0	\$0	\$0

On-campus support tuition/hr, HEFF net	UG	\$219.79	\$219.79	\$219.79	\$219.79
On-campus tuition revenue	hrs x amt	\$1,396,324	\$1,430,611	\$1,456,986	\$1,475,449

Program fee, per cr hr (if any)	\$0.00	\$0	\$0	\$0	\$0
Delivery fee, per cr hr (if any)	\$0.00	\$0	\$0	\$0	\$0
University redirections		\$0	\$0	\$0	\$0
Community/Employers		\$0	\$0	\$0	\$0
Grants/Donations/Other		\$0	\$0	\$0	\$0

Total Resources **\$1,396,324** **\$1,430,611** **\$1,456,986** **\$1,475,449**

Appendix B
Budget & Resources

University of South Dakota, B.S. in Biochemistry

Resources Over (Under) Budget	\$1,197,264	\$1,225,551	\$1,251,926	\$1,270,389
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Provide a summary of the program costs and resources in the new program proposal.

Appendix B
Budget & Resources

University of South Dakota, B.S. in Biochemistry

Estimated Salary & Benefits per FTE	Faculty	Other
Estimated salary (average) - explain below	\$79,640	\$0
University's variable benefits rate (see below)	0.1434	0.1434
Variable benefits	\$11,420	\$0
Health insurance/FTE, FY18	\$8,470	\$8,470
<i>Average S&B</i>	\$99,530	\$8,470

Explain faculty used to develop the average salary & fiscal year salaries used. Enter amount above.

The FY 21 salaries of the tenured and tenure-track members of the Biology and Chemistry faculty were averaged (\$79,640). These are the faculty who will regularly teach most courses associated with this program. No additional courses will be offered to meet the requirements of this program.

Explain adjunct faculty costs used in table:

0 courses per year to be taught by adjuncts at \$0,000 per course.

Explain other [for example, CSA or exempt] salary & benefits. Enter amount above.

N/A

Summarize the operating expenses shown in the table:

With increased enrollment, additional lab equipment and materials will be needed.

Summarize resources available to support the new program (redirection, donations, grants, etc).

N/A

Appendix B
Budget & Resources

University of South Dakota, B.S. in Biochemistry

State-support: Change cell on page 1 to use the UG or GR net amount.

Off-Campus Tuition, HEFF & Net	FY19 Rate	HEFF	Net	
Undergraduate	\$340.05	\$39.11	\$300.94	Change cell on page 1
Graduate	\$450.90	\$51.85	\$399.05	to point to your net
Externally Supported	\$40.00			

State-support: Change cell on page 1 to use the UG or GR net amount for your university.

On-Campus Tuition, HEFF & Net	FY19 Rate	HEFF	Net	
UG Resident - DSU, NSU	\$243.30	\$27.98	\$215.32	Change cell on page 1
UG Resident - SDSU, USD	\$248.35	\$28.56	\$219.79	
UG Resident - BHSU	\$254.20	\$29.23	\$224.97	to point to your net
UG Resident - SDSMT	\$249.70	\$28.72	\$220.98	
GR Resident - DSU,NSU	\$319.40	\$36.73	\$282.67	Change cell on page 1
GR Resident - SDSU, USD	\$326.05	\$37.50	\$288.55	
GR Resident - BHSU	\$328.20	\$37.74	\$290.46	to point to your net
GR Resident - SDSMT	\$324.85	\$37.36	\$287.49	
UG Nonresident - DSU,NSU	\$342.40	\$39.38	\$303.02	Change cell on page 1
UG Nonresident - BHSU	\$355.70	\$40.91	\$314.79	to point to your net
UG Nonresident - SDSU, USD	\$360.50	\$41.46	\$319.04	
UG Nonresident - SDSMT	\$391.10	\$44.98	\$346.12	
x GR Nonresident - DSU,NSU	\$596.30	\$68.57	\$527.73	Change cell on page 1
x GR Nonresident - BHSU	\$612.40	\$70.43	\$541.97	to point to your net
x GR Nonresident - SDSU, USD	\$626.85	\$72.09	\$554.76	
x GR Nonresident - SDSMT	\$652.00	\$74.98	\$577.02	
UG Sioux Falls Associate Degree	\$275.40	\$31.67	\$243.73	Change cell on page 1 to point to your net

Variable Benefits Rates

University	FY19	
BHSU	14.64%	Change the benefits rate cell in the table on page 2 to point to the rate for your university.
DSU	14.36%	
NSU	14.31%	
SDSM&T	14.20%	
SDSU	14.38%	
USD	14.34%	