



**SOUTH DAKOTA BOARD OF REGENTS**  
**ACADEMIC AFFAIRS FORMS**  
**New Undergraduate Degree Program**

<b>UNIVERSITY:</b>	USD
<b>MAJOR:</b>	Applied Health Sciences
<b>EXISTING OR NEW MAJOR(S):</b>	existing
<b>DEGREE:</b>	Associate of Science
<b>EXISTING OR NEW DEGREE(S):</b>	Existing
<b>INTENDED DATE OF IMPLEMENTATION:</b>	Fall 2021
<b>PROPOSED CIP CODE:</b>	26.0101
<b>SPECIALIZATIONS:</b> <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
<b>IS A SPECIALIZATION REQUIRED (Y/N):</b>	No
<b>DATE OF INTENT TO PLAN APPROVAL:</b> N/A	10/5/2020
<b>UNIVERSITY DEPARTMENT:</b>	Public Health and Health Sciences [UHSC]
<b>UNIVERSITY DIVISION:</b>	School of Health Sciences [2H]

**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.*

\_\_\_\_\_

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.**

University of South Dakota requests authorization to offer an Associate of Science in Applied Health Science degree. The program is designed for the students who plan to pursue a health sciences career program at the baccalaureate level. All the degree credit hours will be stackable into bachelor's programs in health sciences field.

USD requests authorization to deliver the program at the Community College for Sioux Falls to serve the students from the region who want to take a first step toward a health science baccalaureate program.

The University does not intend to request new State resources or fees to implement the program. The program will use all existing courses that are already offered in Sioux Falls.

According to the [2019 National Health Index](#), Sioux Falls ranked 14<sup>th</sup> out of the top 100 cities in leading the way in health care. University of South Dakota contributes to the health care workforce in South Dakota as we have the SDBOR only School of Health Sciences. This program will be pathway for students to get into the health care field.

**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 proposed A.S. in Applied Health Sciences program is supportive of and consistent with the mission of the University of South Dakota and the School of Health Sciences. The University of South Dakota was established by the legislature to meet the needs of the state and region by providing undergraduate and graduate programs in the sciences and health sciences among other areas of study.

USD has the only School of Health Sciences in the SDBOR system. The program specifically addresses key aspects of the School of Health Science’s mission by:

1. Establishing a curriculum to prepare graduates for interprofessional, collaborative practice that meets the public health workforce needs of the region, and innovatively moves health and human services forward.
2. Promoting ‘innovative, interprofessional education for professionals who will be serving the needs of the public, especially those in rural, medically underserved and health care shortage areas.’

This program will support the SDBOR strategic goals and State of SD initiatives by increasing the number of graduates for the University and addressing workforce needs.

**3. Describe the workforce demand for graduates of the program, including national demand and demand within South Dakota.**

According to the [U.S. Bureau of Labor Statistics](#), nationally employment in healthcare occupations is projected to grow 15 percent from 2019 to 2029, much faster than the average for all occupations, adding about 2.4 million new jobs.

According to the [South Dakota Department of Labor](#), projections indicate an added 7,100 new jobs in health care by 2028.

Headcounts in specific courses at CCSF included in this program from 2015FA to 2020FA-Note that 2020SP was different related to COVID-19:

Section	Title	15FA	16SP	16FA	17SP	17FA	18SP	18FA	19SP	19FA	20SP	20FA
CHEM 106	Chemistry Survey	61	35	59	49	49	47	54	44	31		36
CHEM 112	General Chemistry I	20	15	30		35		43		16		18
HLTH 422	Nutrition*											18
HSC 250	Healthcare Terminology in the Clinical Setting						32		18	7	16	
PHGY 220	Human Anatomy & Physiology I	14	16	21	32	20	17	20	21	14	9	9
PHGY 230	Human Anatomy & Physiology II	16	12	6	15	23	12	14	11	15	10	5
PSYC 321	Human Development: Lifespan	16	6	18	12	22	13	17	8	13		23
PSYC 451	Psych of Abnormal Behavior	12		10			33		31		22	

*\*HLTH 422 is a new offering at CCSF as of Fall 2020 and will be offered both FA/SP*

**4. How will the proposed program benefit students?**

USD averages 750 pre-health sciences students each year. This degree will provide students with a stackable credential as they are moving through health sciences programs. There are many options for students and this applied health sciences degree is the first step in the pathway. The program will prepare students for admission to baccalaureate health sciences programs. USD is currently working on articulation agreements or pathway programs to give students a clear and direct pathway to a career.

**5. Program Proposal Rationale:**

**A. If a new degree is proposed, what is the rationale?**

No new degree is proposed. The major will be offered within the existing Associate of Science program.

**B. What is the rationale for the curriculum?**

The A.S. in Applied Health Sciences curriculum consists of pre-requisite coursework that students take before applying to health sciences baccalaureate programs. The motivation for the Applied Health Sciences curriculum is to create courses that allow students to see that there are no boundaries and will give the students freedom and curiosity to explore outside of the traditional framework of health sciences. The rationale is to make sure students are on track for success when they graduate from the University of South Dakota and will add value to the workplace.

**C. Demonstrate/provide evidence that the curriculum is consistent with current national standards.**

The A.S. in Applied Health Sciences curriculum, currently offered by Black Hills State University at the University Center in Rapid City, is consistent with the national standards. USD will duplicate this program. According to the Association for Schools of Allied Health, allied health educational programs seek to prepare competent allied health professionals and leaders for practice across multiple health care settings. Strong science preparatory curriculum is consistent with the education recommendations by the [Association for Schools of Allied Health](#), of which USD’s School of Health Sciences is a member institution. In addition, the coursework meets the foundational requirements for entrance into USD’s fully accredited Bachelor of Science in Nursing program.

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

Associate of Science in Applied Health Science degree	Credit Hours	Credit Hours	Percent
System General Education Requirements	24 (-6)		
Subtotal, Degree Requirements		24 (-6)	40%
Required Support Courses (not included above)	0		
Major Requirements	15		
Major Electives	10-11		
Subtotal, Program Requirements		28-29	45%
Free Electives		13-14	15%
Degree Total		60	100%

**Major Requirements**

Prefix	Number	Course Title	Credit Hours	New (yes, no)
PHGY	220 and 220L	Human Anatomy and Integrated Physiology I and laboratory	4	No
PHGY	230 and 230L	Human Anatomy and Integrated Physiology II and laboratory	4	No
MICR	230 and 232	Basic Microbiology and Basic Microbiology lab (online)	3+1	No
PSYC	321	Human Development: Lifespan	3	No
HLTH	422	Nutrition	3	No
HSC	262	Health Careers Exploration	3	No
<b>Take one of the following Chemistry class/lab combinations:</b>				
CHEM	106 plus 106L	Chemistry Survey and Chemistry Survey Lab	3+1	No
	OR 112 plus 112L	General Chemistry I and General Chemistry Lab	3+1	
<b>Take one of the following (with lab if applicable):</b>				
HSC	250	Healthcare Terminology in the Clinical Setting	3	No
CHEM	107 plus 107L	Organic and biochemistry Survey and Organic and biochemistry Survey Lab	3+1	No
	OR 114 plus 114L	General Chemistry II and General Chemistry II Lab	3+1	
PSYC	451	Psychology of Abnormal Behavior	3	No
Subtotal			28-29	

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

Students will be encouraged to take the following general education courses: ENGL 101, ENGL 201, SPCM 101, MATH 103 or 114, PSYC 101, SOC 100, ENGL 210, and PHIL 220.

**6. Student Outcomes and Demonstration of Individual Achievement**

**A. What specific knowledge and competencies, including technology competencies, will all students demonstrate before graduation?**

All students will be able to demonstrate the following knowledge and competencies:

1. Students will be able to apply scientific critical thinking to analyzing health care situations.
2. Students will apply biological and chemical concepts to advanced coursework in health care and clinical practice.
3. Students will be able to understand, interpret and converse in scientific and healthcare language.

Individual Student Outcome (Same as in the text of the proposal)	Program Courses that Address the Outcomes						
	PHGY 220 and 220L	PHGY 230 and 230L	MICR 230 and 232	CHEM 106 and 106L or CHEM 112 and 112L	HLTH 422 and PSYC 321	HSC 250 OR PSYC 451 OR CHEM 107/114 or 107L/114L	HSC 262
Apply scientific critical thinking to analyzing health care situations.	X	X	X	X	X		
Apply biological and chemical concepts to advanced coursework in health care and clinical practice.	X	X	X	X	X		
Interpret and converse in scientific and healthcare language	X	X				X	X

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

There are not any national examinations in this degree program.

**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?**

Mastery will be demonstrated through completion of the student learning outcomes described above in chart under 6A. Completion of curriculum ensures that students will have demonstrated mastery. Additionally, mastery will be demonstrated through successful entry into bachelor's healthcare programs Finally, mastery will be demonstrated through successful performance in the advanced curriculum and completion of the program.

**7. What instructional approaches and technologies will instructors use to teach courses in the program?**

Instructional approaches will explore the inter-relationships of the health sciences in many interdisciplinary, introductory classes. These methods will vary and include lecture / discussion, computer assisted instruction, laboratory instruction and demonstration of laboratory techniques and protocols. Other instructional methods include discussion groups, research and problem-based assignments. In the science courses, laboratory experiences and case studies will be closely integrated with lecture material, while data collection in the laboratory is paired with statistical and computational methods of data analysis and interpretation. Teamwork, written and oral presentation, and problem-solving are central components throughout the curriculum.

**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?**

No developmental consultants assisted with the development of the curriculum. The curriculum was designed based on Black Hills State University's [program](#) at the University Center in Rapid City.

**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.**

We plan to offer this degree at the Community College for Sioux Falls, therefore, we anticipate that many of the students will be new to the university. Of course, it is likely that some will re-direct from other programs as well. During the first few years of the program we expect to enroll 25 students and that this enrollment will grow to 50 students per year as job opportunities emerge in the market. We expect 20 graduates initially and growth to 40. These estimates are based on conversations from a University group analyzing the success of CCSF.

	<b>Fiscal Years*</b>			
	<b>1<sup>st</sup></b>	<b>2<sup>nd</sup></b>	<b>3<sup>rd</sup></b>	<b>4<sup>th</sup></b>
<i>Estimates</i>	FY 22	FY 23	FY 24	FY 25
Students new to the university	5	15	20	25
Students from other university programs		5	5	5
Continuing students	**	**	**	**
=Total students in the program (fall)	5	20	25	30
Program credit hours (major courses)	50	200	250	300
Graduates			5	20

**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.**

No program accreditation is available.

**11. Does the University request any exceptions to any Board policy for this program? Explain any requests for exceptions to Board Policy.** None

**12. Delivery Location**

**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)?**

The University requests authorization to deliver this entire program at the Community College for Sioux Falls in order serve people from the region who wish to prepare for admission to nursing and other healthcare programs. All courses needed for the program are already offered at the Community College for Sioux Falls.

	<b>Yes/No</b>	<b>Intended Start Date</b>
<b>On campus</b>	Yes	<b>Fall 2021</b>

	<b>Yes/No</b>	<b>If Yes, list location(s)</b>	<b>Intended Start Date</b>
<b>Off campus</b>	Yes	CCSF, Sioux Falls	<b>Fall 2021</b>

	Yes/No	If Yes, identify delivery methods <i>Delivery methods are defined in <a href="#">AAC Guideline 5.5</a>.</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)?**

	Yes/No	If Yes, identify delivery methods	Intended Start Date
Distance Delivery (online/other distance delivery methods)	Yes	online	Fall 2021

**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.**

Appendix B is not necessary. Additional expenses for this program are not expected. Students in this program will help to fill courses already offered for other programs. Students in this program will be qualified for the CCSF associate degree rate.

**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

**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.*