PROGRAM DESCRIPTION

Institution	Lake Area Technical College
Program Identifier Code (If applicable)	SURG
Program Title	Surgical Technology
Program Award Level: Check all that apply	☐ Short-Term Certificate ☐ Long-Term Certificate ☐ Diploma ☒ Associate of Applied Science
CIP Code (6 Digit)	51.0909 - Surgical Technology
Projected Implementation Date	8/16/2023
Location	☒ Main Campus ☐ Other:

SUMMARY

Type of Substantive Change	☒ New Program (B.1.1) ☐ Significant Curriculum Modification (B.1.2) ☐ Other:

Describe the change the institution is seeking approval of.

Lake Area Technical College (Lake Area Tech) is seeking approval to establish an Associate of Applied Science for Surgical Technology to address the workforce need for health professionals who are an integral part of the team of medical practitioners providing surgical care to patients in a variety of settings. The surgical technologist works to ensure the operating room is safe, that equipment functions properly, and that the operative procedure is conducted under conditions that maximize patient safety.

Lake Area Tech will pursue national program-level accreditation from the Commission on Accreditation of Allied Health Programs (CAAHEP). The Surgical Technology curriculum will align with the accreditation standards for surgical technology. The program requires learning objectives for sterilization, preoperative, intraoperative, and postoperative procedures as well as perioperative case management. The program requires instruction in healthcare sciences, technological sciences, patient care concepts, and professional practice to provide a well-rounded education to prepare students for success in their career. The curriculum also requires clinical experience in general surgical procedures, specialty surgical procedures, and endoscopic surgical procedures.

The Surgical Technology curriculum trains students to become skilled in:

- Preparing the operating room, including sterile table set up with instruments, supplies, equipment, and medications/solutions
- Assist surgeon with handling of instruments, fluids, and supplies
- Perform a count of sponges and supplies
- Monitor and adjust sterilizers, lights, suction machines, or diagnostic equipment
- Post procedure activities including instrument decontamination and sterilization of instruments

Graduates will be prepared to take the national certification exam, which is the Certified Surgical Technologist (CST).

Industry support is driving this proposal. Prairie Lakes Healthcare System would hire five surgical technologists today if they were available. Due to the aging population and advances in healthcare, it is anticipated that the volume of surgery will increase exponentially. Other support comes from independent health systems in eastern South Dakota who have been in operation for 20+ years and serve rural communities. Their letters of support indicate demand far exceeds the supply in this area and they are continually recruiting for such expertise.

CRITERION 1: MISSION

The program aligns with the system's mission and strategic priorities.

1.1. The program aligns with the system's mission of preparing a technically skilled workforce prepared to serve the state of South Dakota and its regions.
1.2. The program aligns with the system's strategic priorities.

1.1. Describe how the proposed program aligns with the system's mission.

The mission of Lake Area Technical College, as part of the South Dakota Technical College System, is to provide superior, comprehensive technical education that changes lives and launches careers. Regional healthcare systems identified Surgical Technology as a high demand field due to the aging population and wide array of surgical services they offer ranging from operating rooms to endoscopy suites.

Lake Area Technical College is committed to providing high quality technical education to provide students the skills necessary to succeed in their career. The proposed two-year Associate of Applied Science program will help fulfill the workforce needs our healthcare partners are experiencing in northeast South Dakota.

CRITERION 2: DEMAND

The program leads to meaningful employment, adequate student enrollment, and/or fulfills needs not being met by existing education and training providers.

2.1. The program leads to high-wage occupations that have an average/mean wage greater than the median wage across all occupations.
2.2. The program leads to high-demand occupations that have project annual openings (a measure of demand for workers) greater than the average across all occupations or is shown as an economic and/or labor market emerging field for the state of South Dakota and its regions.
2.3. The program's student enrollment is adequate to justify program existence.
2.4. The program fulfills a demand not being met by existing education and training providers in the region and/or state.

2.1. Describe the wage projections for occupations associated with the proposed program by completing Appendix 2.A.

2.2. Describe the demand projections for occupations associated with the proposed program.

A. Complete Appendix 2.A.

B. If an emerging field for the state of South Dakota, describe the field. Letter(s) of support, detailing demand, should be attached as appendices.

This is not an emerging field.

2.3. Describe projected student enrollment for the proposed program by completing Appendix 2.B.

2.4. Describe how the proposed program fulfills a demand not being met by existing education and training providers in the region and/or state.

A. Identify closely related program(s) that currently exist at other public higher education institutions in the system or state. If none, write "None."

Southeast Technical College offers a two-year Associate Degree program in Surgical Technology with a four year average of 70 students according to the South Dakota Board of Technical Education Fall 2021 Enrollment report. It is eligible for the Build Dakota Scholarship.

Western Dakota Technical College offers a two-year Associate Degree program in Surgical Technology with a four year average of 32 students according to the South Dakota Board of Technical Education Fall 2021 Enrollment report. It is eligible for the Build Dakota Scholarship.

Presentation College previously offered a Certificate in Surgical Technology and an Associate of Science in Surgical Technology, however, the program closed. The closure contributed to the increased demand in northeast South Dakota.

B. If applicable: Describe the ways in which the demand is not currently being met by the aforementioned program(s) and provide justification as to why the program should be approved by addressing the following conditions that warrant duplication (BP 303.2). Select all that apply.

☒ Unmet Demand (C.5.1.1)
☒ Industry Partnership (C.5.1.2)
☒ Increases Student Access (C.5.1.3)
☐ Other:

I. For each condition selected above, provide a brief justification.

Prairie Lakes Healthcare System approached Lake Area Technical College in the summer of 2021 to consider starting a Surgical Technology associate degree level academic program due to the need in northeast South Dakota and the inability to find qualified applicants. Hospitals in Milbank and Brookings are also experiencing difficulty in hiring surgical technologist and support this program proposal.

Prairie Lakes is an 81-bed independent, acute care hospital with a specialty physician clinic practice serving northeast SD. Brookings Health System is also an independent, non-profit, city-owned health system providing services within a 45-mile radius. Milbank Area Hospital is part of the Avera network with the expectation of after hour call duty requiring appropriate staffing. This degree will provide an outstanding career opportunity for individuals who are interested in entering the exciting field of surgical technology.

Establishing a Surgical Technology program at Lake Area Tech will increase student access in northeast South Dakota by providing an opportunity to attend a program that is closer to home and will help fulfil workforce demands locally. The partnership between Lake Area Tech and these regional healthcare providers will ensure each medical facility is adequately staff with highly qualified and trained professionals.

One of the factors impacting the regional workforce demand is the recent closure of the program at Presentation College.

CRITERION 3: DESIGN

The program's learning assessment strategy, program of study, and delivery methods are designed to provide students with the necessary competencies, as demonstrated through program learning outcomes.

3.1. The program is aligned to competencies, as demonstrated through program learning outcomes, that are developed with and continually validated by relevant stakeholders.
3.2. The program has a learning assessment strategy to validate student mastery of the program learning outcomes.
3.3. The program has an integrated program of study designed to develop and reinforce the program learning outcomes.
3.4. The program, when appropriate, includes a work-based learning component that develops and reinforces the program learning outcomes.
3.5. The program, when appropriate, offers flexible delivery methods to increase student access.

3.0. Describe the proposed program's alignment with the program award level requirements established in BP 301.1.

A. Does the program align with the requirements?

☒ Yes
☐ No (Requesting Exemption)

B. If no: Provide a detailed rationale for program exemption. Specify which requirement(s) in BP 301.1 are not met; cite specific policy sections (e.g., B.3.4), when appropriate. If external organizations are involved (accreditation, regulatory, licensure, etc.), reference the organization name(s), specific requirements (including citations), and a justification for why the exemption should be approved.

NA

3.1. Describe the program learning outcomes.

A. Provide a list of program learning outcomes for each proposed award level. Learning outcomes should be specific to the program.

The Surgical Technology program prepares individuals, under the supervision of physicians and surgical nurses, to maintain, monitor, and enforce the sterile field and adherence to aseptic technique by preoperative, surgical, and postoperative personnel.

Surgical Technology Students will:

1) Participate as an active member of the perioperative team. Exhibit anticipation and performance of perioperative tasks by evaluating the needs of the surgeon and the surgical patient.

2) Apply concepts of patient safety, asepsis and infection control throughout the patient's perioperative experience. Apply theoretical knowledge of aseptic technique and a surgical conscience by recognizing and appropriately correcting breaks in sterile technique.

3) Demonstrate proficiency in the use of surgical equipment, supplies and instruments in providing patient care. Demonstrate technical knowledge by identifying, organizing, and manipulating routine instrumentation, supplies, and equipment.

4) Demonstrate professional and ethical skills and behaviors consistent with the role of surgical technologist. Exhibit personal accountability and professionalism by demonstrating effective behaviors in ethics and patient advocacy in surgical care situations

5) Demonstrate professional behaviors, communication and collaboration in providing safe patient care. Demonstrate respect for the dignity, rights, beliefs, and values of a diverse population of patients.

6) Demonstrate effective therapeutic communication with the patient and other members of the perioperative team. Apply appropriate interpersonal communication skills with all surgical team members and the surgical patient.

B. Describe the how the program learning outcomes were developed and validated.

The program learning outcomes were developed following the Commission on Accreditation of Allied Health Education Programs (CAAHEP) Standards and Guidelines for the Accreditation of Educational Programs in Surgical Technology. Validation is conducted through a variety of means including consultation with industry experts, Lake Area Tech's Academics Department, and the New Program Committee. The learning outcomes are presented to Advisory Board members for their approval on what surgical technicians should know and be able to demonstrate when entering the workforce.

3.2. Describe the program's learning assessment strategy.

A. Describe how students will demonstrate mastery of the program learning outcomes. Description should be specific to the program's learning assessment plan vs. the institutional assessment plan.

Students will demonstrate mastery of student learning outcomes through a variety of formative and summative assessments. These include locally developed course tests, nationally developed curriculum assessments, and demonstrations in a surgical simulation environment. Post-graduation surveys conducted by employers and our placement report also help to determine the success of the program's graduates.

The Academic Assessment Program at Lake Area Technical College annually evaluates mastery of all program learning outcomes using an assessment matrix, program dashboards, and strategic planning. Program Assessment Mentors (PAMs) visit with each program following the school year to review course & program surveys, achievement of student learning outcomes, and examine the program's dashboard. Instructors develop a plan for the next year focusing on areas identified for improvement.

B. Is the program preparation for a professional licensure and/or certification examination?

☒ Yes (Detail in Appendix 4: Section 3)
☐ No

3.3. Describe the program of study by completing Appendix 3.

3.4. Describe the program's work-based learning component.

A. Does the program have a work-based learning component? If so, select all that apply.

☐ None
☐ Apprenticeship
☐ Internship or Externship
☒ Clinical
☐ Capstone
☐ Other:

B. If none, describe why.

N/A

3.5. Describe the program's delivery methods.

A. Select the program's primary delivery method(s)[1]. Select all that apply.

☒ On Campus
☐ Online
☐ Blended
☐ Apprenticeship
☐ Other:

B. Describe how flexible delivery methods are being leveraged to increase student access.

Lake Area Technical College plans to start the program as a traditional program offering face-to-face instruction, on-campus simulation labs, and off-campus clinical rotations. As the program continues to grow Lake Area Tech will be prepared to offer blended or apprenticeship opportunities.

Thirteen programs at Lake Area Technical College provide the flexibility of an E-Degree or a Blended delivery method. An E-Degree provides an education that is innovative and flexible, with built-in convenience. Classes are completed through a combination of online courses with time on campus for crucial hands-on training. The on campus curriculum will be developed in the student learner management system, MyPortal, allowing for a seamless transition to offering an E-Degree.

Lake Area Technical College is a program sponsor for several apprenticeships and has the expertise and experience to work with the healthcare industry to develop a quality apprenticeship program for Surgical Technology. Apprentices work under the direction of a highly-skilled mentor. Related training instruction can be delivered remotely through Teams Meeting or MyPortal.

Both of these models will help meet demand throughout South Dakota for location bound students who cannot easily move to Watertown. The more flexible education models are important to ensure that technicians working in the healthcare field have access to this advanced technological training.

[1] ***In Person****:* 100 percent of courses are available in-person. ***Online:*** 100 percent of courses are available via distance learning. Delivery is only via the Internet. ***Blended****:* Delivery includes a required combination of both in-person and online courses. If a student has the option to take courses online, but is not required to do so, the program is not necessarily considered blended.

CRITERION 4: ALIGNMENT

The program is vertically aligned to an education and training pathway.

4.1. The program is vertically aligned to an education and training pathway, reflecting efficient articulation of:
4.1.1. Non-degree credential/industry certification
4.1.2. Certificate to diploma
4.1.3. Diploma to associate of applied science
4.1.4. Associate of applied science to baccalaureate

4.1. Describe the alignment of the proposed program along an education and training pathway.

A. Complete Appendix 4.

B. Describe the projected alignment between the proposed program and existing academic programs within the technical college system.

The core curriculum delivered for students enrolled in the Associate Degree in Surgical Technology program allows students the opportunity to transition to other health programs if desired and other admission criteria are met. Fifteen general education requirements transition into several health programs. The Surgical Technology program aligns with various health care programs and certificates at Lake Area Tech including: Certified Nursing Assistant, Community Health Worker Certificate, Licensed Practical Nursing Diploma, EMT Basic Online Certification, and Medical Assisting.

C. As applicable: Insert any additional comments here.

CRITERION 5: CAPACITY

The institution demonstrates the internal and external resources necessary to develop, implement, and sustain the program.

5.1. The institution demonstrates the financial resources necessary to develop, implement, and sustain the program.
5.2. The institution demonstrates appropriately certified and qualified faculty are in place with expertise in content, pedagogy, and related industry to develop and validate the program learning outcomes.
5.3. The institution's physical facilities (e.g., classrooms, laboratories) reflect current industry and/or occupational standards necessary to develop and validate the program learning outcomes.
5.4. The institution's equipment and technology resources reflect current industry and/or occupational standards necessary to develop and validate the program learning outcomes.
5.5. The institution demonstrates the ability of the program to meet institutional and programmatic accreditation standards, as applicable.

5.1. Describe the institution's financial capacity to develop, implement, and sustain the proposed program.

A. Complete Appendix 5.

B. Describe the proposed program's anticipated local fee structure. Description of fee structure should be specific to the program.

The anticipated local fee structure is comparable to the local fee structure currently charged to the students in the healthcare programs including the following per semester fees: Departmental Fee ($814), Campus Support Fee ($263), and Uniform Fee ($56).

C. What is the proposed program weight factor (funding formula)?

☐ Standard Cost (1)
☒ High Cost (3)
☐ High Cost, Low Density (5)

I. Provide rationale related to the selection of proposed program weight factor.

The proposed program aligns with the state-level guidance for the standard-cost program weight factor. The proposed program does not require extensive overhead in faculty, expansion or renovation of physical facilities, or equipment and technology resources.

D. Describe the contingency plans in case anticipated enrollments, income, or resources do not materialize.

Current classroom space will be utilized to deliver face-to-face instruction. The Prairie Lakes Healthcare Center of Learning will provide state of the art simulations to develop and refine critical thinking and hands-on skills.

Purchased program equipment will be 1) passed on to other Lake Area Tech healthcare programs; 2) transferred to other technical colleges; or 3) declared surplus and sold.

When program numbers do not support current staffing levels, Lake Area Tech works with the personnel impacted to determine what other positions they could fill before terminating employment.

Should the program enrollment or income not materialize the program can be terminated with little significant financial loss to Lake Area Tech.

5.2. Describe how the institution will ensure the appropriate certified and qualified faculty are in place with the expertise in content, pedagogy, and the related industry to develop and validate the program learning outcomes.

A. Describe the necessary qualifications of faculty who will be involved in the program.

The faculty qualifications will align with the current credentialing policy for Lake Area Technical College, which is a baccalaureate degree from a four year accredited institution, or an Associates of Applied Science degree in Surgical Technology with equivalent experience in the field, or three years' experience in the field. Preference will be given to candidates with certification and previous work experience. Criminal background checks precede the credentialing process and must be considered as part of the instruction hiring process. Lake Area Tech adheres to the Higher Learning Commission's criterion on highly qualified faculty.

In addition, the Commission on Accreditation of Allied Health Education Programs Qualifications for Personnel will be followed. The Program Director will possess a credential that is accredited by the National Commission on Certifying Agencies (NCCA), have a minimum of five years' experience, and possess an Associate's Degree or greater. The Clinical Coordinator will also possess a NCCA credential and have a minimum of three years' experience. In addition to the faculty credentialing qualifications listed above, faculty must have a NCCA credential.

B. Does the instructorship(s) currently exist in the roster of Instructor Salary Support market value determinations?

☐ Yes
☒ No

I. If no: Describe the SOC(s) codes and titles that will need to be added.

29.2055 Surgical Technologists

5.3. Describe the existing and/or new physical facilities that will be utilized or needed to reflect current industry and/or occupational standards. Outline short- and long-term investments in physical facilities.

The recently constructed, state of the art Prairie Lakes Healthcare Center of Learning at Lake Area Technical College will house the new Associates Degree in the high fidelity simulation lab. Planned renovations include installing a surgical light in one of the simulation lab suites.

5.4. Describe the existing and/or new equipment and technology resources that will be utilized or needed to reflect current industry and/or occupational standards. Outline short- and long-term investments in equipment and technology resources.

New surgical equipment are needed to teach this technology. This equipment includes an operating table, surgical light, surgical table, blanket warmer, and surgical display.

5.5. Describe the institution's and proposed program's ability to meet institutional and programmatic accreditation standards, as applicable.

A. Specify Higher Learning Commission (HLC) requirements.

☐ Notification Only
☒ Approval Required
☐ None
☐ Other:

B. Is there an accrediting or professional organization that has established standards for the program?

☒ Yes
☐ No

C. If yes: Describe the ability of the proposed program to meet professional accreditation standards. If the program does not or cannot meet those standards, describe the area(s) in which it is deficient and indicate steps needed to qualify the program for accreditation. Provide the date by which the program would be expected to be fully accredited.

   If the institution does not plan to seek specialized accreditation, provide a rationale for not seeking.

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) is the organization that has established standards for this program. After reviewing the document, Lake Area Tech is capable of meeting all five standards of Sponsorship, Program Goals, Resources, Student and Graduate Evaluation/Assessment, and Fair Practices. The curriculum design tab in the Appendices spreadsheet was guided by CAAHEP's Core Curriculum for Surgical Technology.

Lake Area Tech's Medical Assistant and Emergency Medical Services – Paramedic programs are current accredited programs by the CAAHEP. The Initial Accreditation Application requires the completion of the "Request for Accreditation Services" and a comprehensive review which includes a written self-study report and an on-site review. This process takes approximately 12 months. The program can expect to be fully accredited by March 2023.

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 2.A: Labor Market Information

Lake Area Technical College
AAS in Surgical Technology

SOUTH DAKOTA								
SOC* CODE	**SOC* TITLE**	**AVERAGE ANNUAL OPENINGS**	**2018 EMPLOYMENT**	**2028 EMPLOYMENT**	**NUMERIC CHANGE: 2018-2028**	**PERCENT CHANGE: 2018-2028**	**MEDIAN: ANNUAL WAGE (2020)**	**AVERAGE: ANNUAL WAGE (2020)**
29-2055	Surgical Technologists - DLR Data	58	603	674	71	11.2%**	$45,731	$46,478
	Surgical Technologists - O*Net Data	60	600	670	70	12.0%	Not listed	Not listed

NATIONAL								
SOC* CODE	**SOC* TITLE**	**AVERAGE ANNUAL OPENINGS**	**2020 EMPLOYMENT**	**2030 EMPLOYMENT**	**NUMERIC CHANGE: 2019-2029**	**PERCENT CHANGE: 2019-2029**	**MEDIAN: ANNUAL WAGE (2020)**	**AVERAGE: ANNUAL WAGE (2020)**
29.2025	Surgical Technologists - BLS Data	9,000	109,700	119,200	9,500	9.00%	$49,710	Not listed

SOURCE: South Dakota Department of Labor and Regulation, Labor Market Information Center (LMIC) https://dlr.sd.gov/lmic/documents/statewide_area_wage_data_aged_to_sept_2021.pdf
DATE: Site updated September 2021 Obtained December 2021

SOURCE: O*Net https://www.onetonline.org/link/localtrends/29-2055.00%20%20%20%20%20?st=SD
DATE: Site updated November 2021 Obtained December 2021

SOURCE: U.S. Bureau of Labor Statistics, Occupational Outlook Handbook https://www.bls.gov/ooh/healthcare/surgical-technologists.htm
DATE: Site updated September 2021 Obtained December 2021

NOTES: **The SD Department of Labor and Regulation site showed the percent change for 2018-2028 as 1.12% We believe this is a calculation error and entered the correct percentage.

According to a recent study conducted by the US Bureau of Labor Statistics, the forecast for employment opportunities for surgical technologists is one of rapid growth. See link belo
https://caahep.org/Students/Program-Info/Surgical-Technology.aspx

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 2.B: Student Demand Projections

Lake Area Technical College
AAS in Surgical Technology

	YEAR 1	YEAR 2	YEAR 3
Student Full-Time Equivalent (FTE)*	**10**	**20**	**18**
Headcount: Full-Time	10	20	18
Headcount: Part-Time			
Headcount: Total	**10**	**20**	**18**
Total Program or Site Capacity	10	20	20

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 3: Program of Study

Lake Area Technical College
AAS in Surgical Technology

MONTHS:	18
SEMESTERS:	4
TOTAL CREDITS:	60

PREFIX AND NUMBER	TITLE	CREDITS	DESCRIPTION	EXISTING COURSE
I. GENERAL EDUCATION CORE				
MATH 101 or 114	Intermediate Algebra or College Algebra	3	Develop problem-solving skills. Basic properties of real numbers, exponents and radicals, rectangular coordinate geometry, solutions to linear equations, inequalities, and polynomials.	Y
CSC 102	Windows Applications for Technicians	3	Overview of software applications including Windows, email, word processing, spreadsheet, database, and presentation software.	Y
COMM 101 or ENGL 101	Communications & Career Strategies or Composition	3	Speech fundamentals and critical thinking through public speaking. Includes setting, purpose, audience, and subject. OR Reading critically and writing clearly, correctly, and persausively. Principles of grammar, rhetoric, and logic in order to anlayze and compose text effectively. Approach a topic in a creative manner, gather and evaluate information, organize ideas, write coherent sentences, and revise and edit drafts.	Y
PSCY 100 or 101	Psychology of Human Relations or General Psychology	3	Introduction to the field of psychology. Biological bases of behavior, sensory and perceptual processes, learning and memory, human growth and development, social behavior, and normal and abnormal behavior.	Y
SOC 100	Introduction to Sociology	3	Study of society with analysis of group life and other forces shaping human behavior.	Y
SUBTOTAL OF GENERAL EDUCATION CREDITS:		**15**	**TOTAL NEW COURSES:**	**0**
II. PROGRAM CORE				
ANAT 142	Anatomy & Physiology	4	Overview of human anatomy and physiology that includes fundamental concepts of cell biology, tissues and organs making up the integumentary, skeletal, muscular, and nervous systems. This course contains a lab component.	Y
MICR 231	Microbiology	4	Study of the structure and the classification of bacteria, viruses, parasites, and fungi. It emphasizes the transmission of disease agents, signs and symptoms, immunology, immunization, control of microbial growth, methods of identification, and antimicrobial resistance. This course contains a lab component.	Y
SURG 210	Surgical Pharmacology & Anesthesia	3	Principles of anesthesia administration and preparation. Introduces basic surgical pharmacology. Topics include drug classification, therapeutic effects, side effects, interactions, and dosage calculations.	N
SURG 125	Medical Law and Ethics	3	In this course students will explore ethical issues that arise in professional settings including business, medical and technical settings. The course will also look at the philosophical underpinnings of current professional policies and how philosophy can offer insights that can enhance and deepen such policies.	N
MA 115	Medical Terminology	3	Covers prefixes, suffixes, and root words to compose medical terms. The student learns to spell, pronounces, define, analyze, and formulate terminology related to body sturcture, disease, diagnosis, and treatment. Medical abbreviations are also included.	Y
SURG 215	Surgical Pathophysiology	3	Introduces the learner to human disease processes that prompt surgical intervention. Relationships between cell pathology and disease will be examined. Disorders that disrupt homeostasis and surgical considerations will be presented. Surgical pathologies of the human body will be illustrated.	N
SURG 120	Introduction to Surgical Technology	3	Explores the role of surgical techniologists. Fundamental principles of asepsis, professionalism, communication, universal precautions, the surgical team, operating room environment, and patient care concepts are introduced.	N
SURG 121	Surgical Technology I	3	Introduces the role of the surgical technologies in the operating room and the foundation for patient care in the operating room.	N

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 3: Program of Study

Lake Area Technical College
AAS in Surgical Technology

SURG 222	Surgical Technology II	3	Considers procedures of the musculoskeletal, digestive, respiratory, preproductive, otic, and opthalmic systems, and patient care relating to these body systems in the different perioperative phases.	N
SURG 125	Surgical Technology Clinical I	6	Practice the role of the surgical technologist under supervision in an active surgical setting. Perform First Scrub Role, Second Scrub Role, and Observation Role.	N
SURG 223	Surgical Technology III	3	Expands the student's knowledge of the role of the surgical technologist in the operating room. Considers the procedures of the lymphatic, circulatory, vascular, and nervous systems, and patient care realting to these body systems in the different perioperative phases.	N
SURG 225	Surgical Technology Clinical II	6	Continuation of Surgical Technology Clinical I.	N
SURG	Surgical Technology Certification Review	1	Prepares student for taking and passing the national certifying examiniation.	N
SUBTOTAL OF PROGRAM CREDITS:		**45**	**TOTAL NEW COURSES:**	**10**

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 4: Alignment Projection

Lake Area Technical College
AAS in Surgical Technology

TOTAL CREDITS IN PROPOSED PROGRAM:
60

I. STACKABLE OPPORTUNITIES							
PROGRAM NAME		Short-term Certificate		Existing	If Forthcoming: Projected Timeline	Total Credits in Stackable Program	How many PROPOSED PROGRAM credits are in this stackable program opportunity?
		Long-term Certificate		Forthcoming			
		Diploma					
		AAS					
PROGRAM NAME		Short-term Certificate		Existing	If Forthcoming: Projected Timeline	Total Credits in Stackable Program	How many PROPOSED PROGRAM credits are in this stackable program opportunity?
		Long-term Certificate		Forthcoming			
		Diploma					
		AAS					
PROGRAM NAME		Short-term Certificate		Existing	If Forthcoming: Projected Timeline	Total Credits in Stackable Program	How many PROPOSED PROGRAM credits are in this stackable program opportunity?
		Long-term Certificate		Forthcoming			
		Diploma					
		AAS					
PROGRAM NAME		Short-term Certificate		Existing	If Forthcoming: Projected Timeline	Total Credits in Stackable Program	How many PROPOSED PROGRAM credits are in this stackable program opportunity?
		Long-term Certificate		Forthcoming			
		Diploma					
		AAS					

II. ARTICULATION AGREEMENTS (BACCALAUREATE)						
PROGRAM NAME	**COLLEGE OR UNIVERSITY**		Existing	If Forthcoming: Projected Timeline	Total Credits in Bachelor's Degree	How many PROPOSED PROGRAM credits are projected to be accepted in the articulation agreement?
Health Sciences	University of South Dakota	X	Forthcoming	May-23	120	49
PROGRAM NAME	**COLLEGE OR UNIVERSITY**		Existing	If Forthcoming: Projected Timeline	Total Credits in Bachelor's Degree	How many PROPOSED PROGRAM credits are projected to be accepted in the articulation agreement?
			Forthcoming			
PROGRAM NAME	**COLLEGE OR UNIVERSITY**		Existing	If Forthcoming: Projected Timeline	Total Credits in Bachelor's Degree	How many PROPOSED PROGRAM credits are projected to be accepted in the articulation agreement?
			Forthcoming			

III. LICENSURE AND CERTIFICATION OPPORTUNITIES		
The PROPOSED PROGRAM will qualify students to pursue the following licensure and/or certification opportunities:		
LICENSURE/CERTIFICATION	**OVERSIGHT ORGANIZATION**	Will the licensure/certification require reporting per SDCL 13-1-61?
Professional Certification of Surgical Technologist (CST)	National Board of Surgical Technology and Surgical Assisting (NBSTSA)	No
LICENSURE/CERTIFICATION	**OVERSIGHT ORGANIZATION**	Will the licensure/certification require reporting per SDCL 13-1-61?
LICENSURE/CERTIFICATION	**OVERSIGHT ORGANIZATION**	Will the licensure/certification require reporting per SDCL 13-1-61?

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 5: Financial Projections

Lake Area Technical College
AAS in Surgical Technology

	YEAR 1	YEAR 2	YEAR 3
Student FTE	**10**	**20**	**18**
I. PROJECTED EXPENDITURES			
A. ONE-TIME			
New/Renovated Facilities	$ 20,000.00	$ -	$ -
Equipment	$ 80,000.00	$ -	$ -
Other	$ -	$ -	$ -
Sub-Total: One-time	$ 100,000.00	$ -	$ -
B. RECURRING			
B.1. PERSONNEL			
FTE (Faculty and Staff)	1.0	2.0	2.0
Salary & Benefits*	$ 58,000.00	$ 120,000.00	$ 124,000.00
B.2. OPERATING			
Rental / Lease	$ -	$ -	$ -
Contractual Services	$ 25,000.00	$ 10,000.00	$ 10,000.00
Equipment	$ -	$ -	$ -
Supplies	$ 5,000.00	$ 8,000.00	$ 8,000.00
Travel	$ 2,000.00	$ 4,000.00	$ 4,000.00
Other	$ -	$ -	$ -
Sub-Total: Operating	$ 32,000.00	$ 22,000.00	$ 22,000.00
Total: Recurring	**$ 90,000.00**	**$ 142,000.00**	**$ 146,000.00**
TOTAL EXPENDITURES (A + B)	**$ 190,000.00**	**$ 142,000.00**	**$ 146,000.00**
II. PROJECTED REVENUE			
Tuition	$ 37,200.00	$ 74,400.00	$ 66,960.00
State Fees	$ 12,600.00	$ 25,200.00	$ 22,680.00
Local Fees	$ 22,660.00	$ 45,320.00	$ 40,788.00
Location-Based Fees	$ -	$ -	$ -
State Sources	$ -	$ 37,709.10	$ 75,418.20
Federal Sources	$ -	$ -	$ -
Private Grants or Gifts	$ -	$ -	$ -
Other	$ -	$ -	$ -
TOTAL REVENUE	**$ 72,460.00**	**$ 182,629.10**	**$ 205,846.20**
REVENUE - EXPENDITURES	**$ (117,540.00)**	**$ 40,629.10**	**$ 59,846.20**

**Projections are held constant based on current fiscal year. Inflation or rate changes are not factored.*

SOUTH DAKOTA BOARD OF TECHNICAL EDUCATION
Appendix 5: Financial Projections

Lake Area Technical College
AAS in Surgical Technology

Notes:

*Salary calculation based upon the market value for Surgical Technicians in the State Board of Technical Education instructor industry adjustment formula.

November 30, 2021

Prairie Lakes Healthcare System
Shelly Turbak, Chief Nursing Officer
401 9th Ave NW
Watertown SD 57201
shelly.turbak@prairielakes.com
605-882-7671

South Dakota Board of Technical Education
800 Governors Drive
Pierre, SD 575436

South Dakota Board of Technical Education Members:

My name is Shelly Turbak. I am the Chief Nursing Officer at Prairie Lakes Healthcare System (PLHS) in Watertown, SD. Prairie Lakes is an 81-bed independent, acute care hospital with a specialty physician clinic practice. In additional to services usual and customary to patients requiring acute or emergent care or hospitalization, Prairie Lakes offers a wide variety of surgical services on both an inpatient and ambulatory/outpatient basis. Surgical services available at Prairie Lakes includes general surgery, urology, orthopedics, vascular, obstetrics and gynocology, plastic surgery, opthamology, podiatry, and ear, nose and throat procedures.

Surgical Technologists have an essential role in all surgical procedures. Their role spans from case set up, preparing the operating room, including the sterile field, assisting the surgeon with handling of instruments, fluids and supplies and managing surgical equipment. Surgical technologists simultaneously manage the sterile field, specimens and perform a count of sponges and supplies to prevent foreign retained objects. Their role is not restricted to the operating room surgical technologists support similar functions in GI endoscopy procedures managing, decontaminating and disinfecting specialized endoscopy scopes and equipment.

Surgical technologists are also involved in post procedure activities such as instrument decontamination and sterilization. The surgical technologist can also serve a role soley focused on cleaning and sterilization of instruments, including cameras and scopes. A surgical procedure does not happen without an individual functioning in the surgical technologist role.

The demand for surgical technologists is very high and will continue to grow with technological advances in and the evolution of new surgical procedures. According to the Association of Surgical Technologists, surgical technologists are working in one of the fastest growing professions in the country.

The US Bureau of Labor Statistics projects that the surgical technology profession will grow faster than the average of all other occupations through the year 2030. It is anticipated that the volume of surgery will increase exponentially due to the expanding senior population.

Prairie Lakes strongly supports the development of a surgical Technologist program at Lake Area Technical College (LATC) in Watertown and would hire five (5) surgical technologists today if they were available.

The demand for surgical technologists across the State has continued to increase as the growth in surgical services occurs. Hospitals, free-standing surgery center, and procedural locations in a physician office setting continue to expand surgical type offerings and a surgical technologist an essential member of the team. The starting pay rate for a new graduate surgical technologist is around $20 per hour in the local market.

On behalf of PLHS, please accept this letter of support for LATC to expand educational offerings to include a surgical technologist program in Watertown.

Sincerely,

Shelly Turbak

Shelly Turbak, RN, MSN
Chief Nursing Officer

Mary Petersen

Mary Petersen RN
Director Surgical Services

November 5, 2021

Brookings
HEALTH SYSTEM

Brookings Health System
Jason Merkley
President & CEO
300 22nd Avenue
Brookings, SD 57006
jmerkley@brookingshealth.org
(605) 696-9000

South Dakota Board of Technical Education
800 Governors Drive
Pierre, SD 575436

South Dakota Board of Technical Education Members:

I am writing you today from Brookings Health System to express our support of Lake Area Tech in expanding their healthcare program offering and developing a Surgical Technician program.

Brookings Health System (BHS) is an independent, non-profit, city-owned health system that offers our region a full range of inpatient, outpatient and extended care services. BHS includes the 49-bed Brookings Hospital; a 79-bed skilled nursing home, The Neighborhoods at Brookview; congregate living apartments for seniors, Brookhaven Estates; Arlington Medical Center; White Medical Clinic; Volga Medical Clinic and Yorkshire Eye Clinic. The health system serves the healthcare needs of Brookings and surrounding communities within a forty-five (45) mile radius.

Brookings Hospital offers a wide array of surgical services within our operating rooms and endoscopy suites. Surgical Technicians are key team members to the success of our program and the outcomes of our services. Currently the demand for surg techs far exceeds the supply in this area of South Dakota and we are in continual recruitment mode for such expertise. It is estimated this demand will only increase and further challenge our ability to provide high quality surgical services to those we serve. It would be our goal to partner with Lake Area Tech's new program allowing us to engage students through clinical training and, in turn, allow those students to experience what BHS has to offer them in a future surgical technician career.

Lake Area Tech is a leader in developing the future healthcare workforce. Please join me in supporting their goals and vision of developing a Surgical Technician program and provide the necessary approval to help grow and establish programs such as this which will ultimately help us address the workforce needs within our community and South Dakota.

Sincerely,

Jason Merkley

Milbank Area Hospital
Avera

301 Flynn Drive
Milbank, SD 57252
605-432-4538
Fax: 605-432-5412

October 20, 2021

South Dakota Board of Technical Education
800 Governors Drive
Pierre, SD 575436

South Dakota Board of Technical Education Members:

I am writing to urge support of Lake Area Technical College's proposal to develop a surgical technician program. As in many businesses our primary asset is our people. However, in healthcare many times that requires employees who have an education and licensure. As we continue to see shortages in licensed staff for healthcare, the addition of this program would be very helpful in creating a vessel to achieve the required education.

There are limited training programs for surgical technicians. We are very confident by having the availability of this program in northeast South Dakota it would make a positive impact on the supply of this profession. Our hospital's surgery department relies on this profession to carry forth the necessary services we offer to those we serve in our area. In addition to the work that gets done during business hours, we also have an expectation of call hours which is after 5 pm, weekends and holidays for after hour services. To appropriately staff this, it requires we have the appropriate number of employees available.

We are excited by the future addition of the surgical technician program to Lake Area Tech's program offerings. They do a tremendous job in turning out exceptionally trained healthcare professionals which we rely on greatly to fulfill our staffing needs. Our campus currently employs 150 employees; four of which are fulltime, part time and PRN surgical techs.

We appreciate your anticipated support of this program addition.

Sincerely,

Natalie Gauer

Natalie Gauer
Administrator

WESTERN DAKOTA
TECHNICAL COLLEGE

March 7, 2022

Dear Program Committee Members:

Western Dakota Technical College is fully supportive of Lake Area Technical College's desire to serve its local employer base. This perspective, while not always shared by the other colleges, has been a high value for WDTC for the past several years. Even though we fully appreciate the desire to serve a local employer base, WDTC has significant concerns about LATC's proposal to start a surgical technology program, outlined below:

- The proposal materials include insufficient clinical partnerships developed to support the type and number of surgical procedures required by the accrediting association to meet minimal accreditation standards, as well as the number of students planned for enrollment. While the local hospital states it plans to increase its surgical capacity, the regional population itself will not provide the variety and volume of surgery cases needed to support the clinical experiences of even a small program. Per ARC/STSA's Standard II.A Clinical Sufficiency Assessment, a program's maximum enrollment capacity should be based on the availability of supervised clinical experience. Maximum enrollment capacity includes the number of students per cohort, the number of cohorts per academic year and the number of cohorts that have the potential to overlap in the clinical competent of the program. LATC has proposed an enrollment of 10 students each year with two clinical classes (each 6 credits) that have the potential to overlap, especially with transfer or re-entry students. Therefore, LATC will be required to secure at least 20 clinical sites to show sufficient clinical resources to meet the accreditation standard. Due to current clinical insufficiency within LATC's application, additional clinical sites in east river (and beyond) will need to be secured. Currently, WDTC has affiliation agreements with 9 clinical sites in east river (specifically Brookings, Mitchell, Yankton, Aberdeen (2), Watertown (2), and Pierre (2)). Additionally, WDTC currently has affiliation agreements with 5 clinical sites in North Dakota (specifically Dickenson, Bismarck (2), and Fargo (2)). These WDTC affiliations in east river and in ND would be affected by this new program approval.

- Although a 4-semester schematic was not part of LATC's application, WDTC is presuming the proposed classes of SURG125 (Surgical Technology Clinical I) and SURG 223 (Surgical Technology Clinical II) will be scheduled for the fall and spring semesters of year two (or the 3rd and 4th semesters). WTDC's clinical semester is also in the 4th semester of the program. Again, there will be conflicts with clinical site placements between the two programs. The current schematics for the WDTC and STC Surgical Technology Programs provide very minimal conflict in clinical sites. WDTC students perform all their clinical hours in the 4th (spring) semester and STC students perform a small portion of clinical time in the 4th (spring) semester and the majority of clinical hours in the 5th (summer semester). Because LATC's proposed program will need additional clinical sites, WDT suggests developing clinical load agreements between STC, WDTC and LATC before allowing LATC to begin a program where students will be unable to complete their requirements because of a lack of clinical sites.

WDTC recommends that LATC partner with the two other colleges in South Dakota to ensure that their industry partner has sufficient surgical technologists for their region. The Watertown community may grow enough in a few years to support a surgical technology program at LATC at that time, but it cannot at this time. Without a

prior agreement with Southeast Tech's program over clinical space, tensions will arise. Since there is no precedent in South Dakota for this type of clinical site sharing, it is difficult to imagine that one could be developed in the next month or two.

Respectfully,

Ann Bolman, Ed.D.

Ann Bolman, Ed.D.

PO Box 730 \\\ 1201 Arrow Avenue NE \\\ Watertown, SD 57201 \\\ 605.882.5284 or 1.800.657.4344

March 15, 2022

South Dakota Board of Technical Education
Committee on Academic Affairs and Institutional Effectiveness
800 Governors Drive
Pierre, SD 57501

Dear Committee on Academic Affairs and Institutional Effectiveness:

This letter is in response to the Western Dakota Tech letter outlining duplication concerns about the Surgical Technology new program proposal.

Lake Area Technical College developed this proposal in response to requests from healthcare providers in northeast South Dakota. LATC area of responsibility spans well beyond just Watertown, as do the needs for surgical techs (see original application) and those offering to serve as clinical sites. LATC has been working with STC to address the needs for Surg Techs in NESD, and coordinated the start up of this program. There are 107 open Surgery Technician jobs on Indeed.com in SD today, with projected significant growth. With the completion of the Prairie Lakes Healthcare Center of Learning, both the need and ability to offer the program exists. The decision was made in discussions with STC. The northeast South Dakota major* industry partners supportive of providing clinical locations and graduate employment are below:

Northeast South Dakota Hospitals with Surgery:

Avera St Luke's Hospital, Aberdeen
Brookings Health System, Brookings
Community Memorial Hospital, Redfield
Coteau des Prairies Hospital, Sisseton
Milbank Area Hospital, Milbank
Prairie Lakes Healthcare System, Watertown
Sanford Aberdeen Medical Center, Aberdeen
Avera St Mary's Hospital, Pierre
Mobridge Regional Hospital, Mobridge
Huron Regional Medical Center, Huron

Northeast South Dakota Surgical Centers:

Avera Dakota Plains Surgical Center, Aberdeen
Avera Medical Group Specialty Care, Brookings
Brookings Ambulatory Surgery Center, Brookings
Glacial Lakes Orthopedics, Watertown
iSurgery Center (affiliated with Ophthalmology Associates), Aberdeen
Mallard Point Surgical Center, Watertown
Orthopedics and Sports Medicine, Aberdeen
Orthopedic Institute, Brookings

As is LATC's standing policy, our Surg Tech program will be fielded in full coordination with our accrediting bodies and will meet or exceed all accreditation requirements as we move forward into implementation. Thank you for your time and consideration.

Very respectfully,

Michael Cartney
President