

BOARD OF HIGHER EDUCATION

REQUEST FOR COMMITTEE AND BOARD ACTION

COMMITTEE: Academic Affairs

NO.: AAC 15-32

COMMITTEE DATE: June 9, 2015

BOARD DATE: June 16, 2015

**APPLICATION OF BUNKER HILL COMMUNITY COLLEGE TO OFFER THE
SURGICAL TECHNOLOGY CERTIFICATE**

MOVED: The Board of Higher Education hereby approves the Application of **BUNKER HILL COMMUNITY COLLEGE** to offer the **CERTIFICATE** in **SURGICAL TECHNOLOGY**.

Upon graduating the first class for this program, the College shall submit to the Board a status report addressing its success in reaching program goals as stated in the application and in the areas of enrollment, curriculum, faculty resources, and program effectiveness.

Authority: Massachusetts General Laws Chapter 69, Section 30 et seq.

Contact: Winifred M. Hagan, Ed.D., Assistant Commissioner for Academic and Educator Policy

BOARD OF HIGHER EDUCATION

June 2015

Bunker Hill Community College Surgical Technology Certificate

INTENT AND MISSION

The proposed Surgical Technology Certificate (STC) reflects the Bunker Hill Community College (BHCC) intention to offer multi-disciplined programs in Allied Health and for the purpose of strengthening and coordinating public and private sector pathways and partnerships leading to college readiness, student internships, career opportunities, practica, civic engagement and learning communities. It is expected that the proposed STC program will meet this goal by preparing students in acquiring the skills to obtain employment in either the public or private sector upon successful completion of the course and passing a national certification examination.

The goal of this program is to develop entry-level employable surgical technologists who can successfully integrate and contribute to the health care team. This will be accomplished by developing competent graduates who can implement their education to provide care cognitively, skillfully and affectively as well as meet the benchmark set by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). It is intended that the proposed STC program will improve the existing one by providing a more in-depth curriculum with additional courses, laboratory experiences, case studies and certification exam preparation time; and better prepare students for internships and the national certification exam, qualifying graduates for rapid employment.

The proposed STC program has obtained all necessary governance approvals on campus and was approved by the Bunker Hill Community College Board of Trustees on March 16, 2015. The required letter of intent was circulated on March 17, 2015. No comments were received.

NEED AND DEMAND

National and State Labor Market Outlook

BHCC has reported that surgical technology will continue to grow as one of the fastest and most desirable professions within allied health. Well-trained surgical technologists are described as currently in high demand in both hospitals and ambulatory surgical centers. The Bureau of Labor Statistics has indicated that employment is projected to increase 35% by 2022.¹

Student Demand

It is anticipated that student demand will be the same for the proposed STC program as it has been for the existing one.

¹ Retrieved 5/8/2015 <http://www.bls.gov/>; <http://www.bls.gov/oes/current/oes292055.htm>

OVERVIEW OF PROPOSED PROGRAM

The existing STC program currently requires 29 credits for completion. These include 16 credits of surgical technology courses, 4 credits of a core science course, and 9 credits of general education courses. It is planned that the revised STC will require 40 credits for completion and include 24 credits of surgical technology courses. New courses planned include Pharmacology I - II, Medical Terminology, Asepsis, and Surgical Seminar. It is expected that the courses contain more in depth coverage of existing topics and significantly more classroom and laboratory time ensuring that students can be better prepared for the national certification exam. It also enables BHCC to meet the requirements of the Sixth Edition of the Core Curriculum for Surgical Technology.

Duplication

Current CAAHEP-accredited programs in Massachusetts are at Massachusetts Bay Community College, North Shore Community College, Quinsigamond Community College, Quincy College and Springfield College.

ACADEMIC AND RELATED MATTERS

Admission

BHCC expects to require students to apply to the proposed program through the Program Coordinator for the Allied Health Programs. In addition, it is expected that candidates will have earned a high school diploma or GED Certificate and attend an information session; complete Writing Skills II (ENG095) with a minimum grade of C or place into College Writing I (ENG111); complete Foundations of Mathematics (MAT093) with a minimum grade of C or place above Fundamentals of Mathematics (MAT093) on the college placement test; complete the college placement tests in reading, math, and English (10th grade reading level preferred).

Program Enrollment Projection

	# of Students Year 1	# of Students Year 2	# of Students Year 3	# of Students Year 4
New Full-Time	24	24	24	24
Continuing Full-Time				
New Part-Time				
Continuing Part-Time				
Totals	24	24	24	24

Curriculum (Attachment A)

Internships or Field Studies

BHCC clinical affiliations agreements have already been established with area hospitals through existing allied health programs. These affiliations enable students to apply knowledge and skills obtained in the classroom by providing care to patients in a hospital. Affiliations include Massachusetts General Hospital, Beth Israel Deaconess, Brigham and Women's Boston, Faulkner and Foxboro, New England Baptist, Newton Wellesley, VA Jamaica Plain and West Roxbury, Boston Medical Center, Boston Children's Hospital, Metro West Medical Center Framingham Union and Leonard Morse, Massachusetts Eye and Ear, Lowell General Hospital, Melrose Wakefield Hospital, and Mount Auburn Hospital.

RESOURCES AND BUDGET

BHCC expects that because this is an existing program and there is no change in faculty or staff, there is no change in the program costs except for annual cost of living salary increases. The Surgical Technology program currently has 29 credits. At a cost of \$149/credit and an additional \$35 health fee for 19 of those credits, the cost per student is \$4,916. This proposal requests that an additional 11 credits be added to the curriculum. The new tuition will be \$6,576 per student. With a class of 24 students, it is planned that the revenue will be increased by \$39,336 per year.

Fiscal (Attachment B)

Faculty and Administration (Attachment C)

It is expected that existing faculty will teach new courses for the program. This is planned to include a Program Director who will have responsibility for program development and implementation as well as instructional responsibilities. BHCC anticipates the need for one part-time Lab Assistant/Clinical Instructor to help instruct and evaluate the students in the lab and on Clinical Placements each semester.

Facilities, Library and Information Technologies

BHCC has determined that equipment needs will be in place with the purchase of minimally invasive instrumentation, a new mannequin, and specialty surgical instrumentation already covered. It is expected that the classroom/lab for the proposed STC will contain two surgical technology kits, a back table, mayo stands, a light, a bed, and a ring stand. BHCC plans to purchase the specialty equipment and instrumentation, a laparoscopic tower, and minimally invasive instrumentation. The additional equipment and instrumentation will be used for Surgical Technology I, Surgical Technology II, and Surgical Asepsis.

Affiliations and Partnerships

The BHCC Surgical Technology Program Advisory Committee is comprised of individuals from private and public Hospital Providers, Registered Nurses, Physicians and Industry representatives, community representative, and graduates of the program. Their role is to provide feedback concerning, the program's curriculum and resources relative to the demands and expectations of the labor market; input concerning the effectiveness of the curriculum to address student needs and prepare students for employment; assistance in locating opportunities for student internships and employment; assist in securing material resources for the program, such as equipment and supplies; support the program in gaining and sustaining the support and involvement of the community; and assess the programs goals and objectives.

PROGRAM EFFECTIVENESS

Goal	Measurable Objective	Strategy for Achievement	Timetable
Number of students that receive passing grade and are eligible to take the National Certification examination	Each student is assessed for identified Surgical Technology terminal competency for skills through attendance, skills demonstration, quizzes, exams, and final grade	Comparison of number of students that receive passing grade for the Program and are eligible to take the National Certification examination.	End of Program
Number of students that sit for and pass the National Certification examination	List of students who passed the examination	Comparison of number of students that passed the examination vs. those students who took the examination.	Three (3) months after completion of the of Program
Effectiveness of curriculum	Student evaluation Retention rate Passing scores on the National certification examination	Feedback from students Improved retention Pass rate/Semester	End of each semester
Use of Surgical Technology training to obtain employment	Six (6) month analysis to ascertain how many students are currently employed as Surgical Technologists.	Development of a data base to track use of Surgical Technology training for student employment.	Six (6) months after completion of Program
Training equipment	All equipment must be in good working condition	Instructor Coordinator will test all equipment and supplies prior to commencement of each semester and either replace or repair defective equipment.	One (1) month prior to the commencement of classes
Medical Library	BHCC maintains a health and medical reference section. BHCC is a member of NOBLE. Students have access to all consortium materials	Program Director will review selections for current and updated materials	Annually
Audio-visual and software materials	Program has complete sets of audio-visual equipment pertinent to Surgical Technology instruction	Program Director will review selections relevancy to provide for a variety of presentation modalities.	Annually
Computer Resources	BHCC Academic Computing Center (ACC) has in excess of 250 personal computers. All students may use the center's resources	Instructor Coordinator of the Program will provide students with information on location of the ACC and use of computers.	First Semester
Text book	Reviewed for appropriate reading level and content	Program Director will review & compare texts	Annually
Faculty evaluation	Dean's evaluation of	Review of faculty to assess	Each semester

	teaching methods Student's evaluation Student retention Success rate	teaching effectiveness. Feedback from students. Improved retention rate/ pass rate Percentage of students who pass the national certification examination	
Student's ability to function as a competent entry-level surgical Technologist	National certification pass rate Graduate survey Job placement rate	Review outcomes to assess effectiveness of Program	Annually

EXTERNAL REVIEW AND INSTITUTIONAL RESPONSE

The STC proposal was reviewed by Thomas Lescarbeau, Associate Professor and Director of Surgical Technology at Lone Star College, Tomball Texas; and Rebecca Hall, Surgical Technology Program Coordinator at Delta College, University Center, Michigan. The reviewers found the proposed STC program to have strong leadership with a clear vision and mission. The increased number of credits was underscored as a means to improve student learning outcomes and prepare the students for entry-level as surgical technologists. As well, the additional courses were noted to relieve the pressure of condensed content coverage and serve instructors in developing more meaningful lesson plans and increased student learning. Recommendations included multiple suggestions regarding course contents, specific increases in lab instrumentation inventory, and a mock operating room (O.R.) or access to a real one for authentic experience in a clinical setting. In addition, reviewers recommended at least one student observation in an O.R. near the beginning of the program.

BHCC responded that curricular adjustments have been made to the proposal and funding sources have been identified to acquire instrumentation.

STAFF ANALYSIS AND RECOMMENDATION

Staff thoroughly reviewed all documentation submitted by Bunker Hill Community College and external reviewers. Staff recommendation is for approval of the proposed **Surgical Technology Certificate**.

ATTACHMENT A: CURRICULUM

Required (Core) Courses in the Major (Total # courses required = 12		
Course Number	Course Title	Credit Hours
SGT 105	Surgical Technology I	5
NHP180	Medical Terminology	3
SGT115	Surgical Asepsis	2
PMTXXX	Pharmacology for Surgical Technology I	1
SGT 106	Surgical Technology II	8
PMTXXX	Pharmacology for Surgical Technology II	1
SGT 107	Surgical Technology III	3
SGT 116	Surgical Seminar	4
ENG 111	College Writing I	3
PSY 101	Principles of Psychology	3
PSY 213	Human Growth and Development	3
BIO 108	Human Biology/Lab	4
Elective Courses (Total # courses required) (attach list of choices if needed)		
	Sub Total Elective Credits	
Distribution of General Education Requirements		
Attach List of General Education Offerings (Course Numbers, Titles, and Credits)		# of Gen Ed Credits
Arts and Humanities, including Literature and Foreign Languages		0
College Writing ENG111: College Writing I, (3 credits)		3
Mathematics and the Natural and Physical Sciences BIO108: Human Biology & Lab (4 credits)		4
Social Sciences		6
Sub Total General Education Credits		13
Curriculum Summary		
Total number of courses required for the degree		12
Total credit hours required for degree		40

ATTACHMENT B: BUDGET

One Time/ Start Up Costs		Annual Expenses			
		Year 1	Year 2	Year 3	Year 4
	Cost Categories				
	Full Time Faculty (Salary & Fringe)	\$123,733	\$128,063	\$132,545	\$137,184
	Part Time/Adjunct Faculty (Salary & Fringe)	\$14,000	\$14,000	\$14,000	\$14,000
	Staff				
	General Administrative Costs				
	Instructional Materials, Library Acquisitions	\$8,767	\$8,767	\$8,767	\$8,767
	Facilities/Space/Equipment				
	Field & Clinical Resources				
	Marketing				
	Other (Specify)				
	TOTALS				

One Time/Start- Up Support		Annual Income			
		Year 1	Year 2	Year 3	Year 4
	Revenue Sources				
	Grants				
	Tuition	\$157,824	\$157,824	\$157,824	\$157,824
	Fees				
	Departmental				
	Reallocated Funds				
	Other (specify)				
	TOTALS				

ATTACHMENT C: FACULTY

Summary of Faculty Who Will Teach in Proposed Program							
Please list full-time faculty first, alphabetically by last name. Add additional rows as necessary.							
Name of faculty member (Name, Degree and Field, Title)	Check if Tenured	Courses Taught Put (C) to indicate core course. Put (OL) next to any course currently taught online.	Number of sections	Department of Emergency Medical Studies	Full- or Part-time in Program	Full- or part-time in other department or program (Please specify)	Sites where individual will teach program courses
Jayne MacPherson CST PhD Professor	<input checked="" type="checkbox"/>	• Surgical Technology I (C)	1	Day	Full-Time	No	• Chelsea Campus
Jayne MacPherson CST PhD Professor	<input checked="" type="checkbox"/>	• Surgical Technology II (C)	1	Day	Full-Time	No	• Chelsea Campus
Jayne MacPherson CST PhD Professor	<input checked="" type="checkbox"/>	• Surgical Asepsis (C)	1	Day	Full-Time	No	• Chelsea Campus
Jayne MacPherson CST PhD Professor	<input checked="" type="checkbox"/>	• Surgical Technology III (C)	1	Day	Full-Time	No	• Chelsea Campus
Jayne MacPherson CST PhD Professor		• Surgical Seminar (C)	1	Day	Full-time	No	• Chelsea Campus
Iris Restrepo CST BS Assistant Professor	<input type="checkbox"/>	• Medical Terminology (C)	2	Day	Full-Time	No	• Chelsea Campus
Deborah Latina RN BS, NHA Assistant Professor	<input checked="" type="checkbox"/>	• Medical Terminology	1	Day	Full-time	Yes Medical Assistant, Patient Care Technician, and Certified Nursing Assistant	• Chelsea Campus
Dr. Rosana Durang Adjunct Faculty	<input type="checkbox"/>	• Medical Terminology (C)	2	Evening and Web	Part-time	No	• Chelsea Campus