

DATE: July 26, 2007

SUBJECT: Chattanooga State Technical Community College Technical Certificate (40 credit hours) in Cardiovascular Sonography

ACTION RECOMMENDED: Approval

BACKGROUND INFORMATION: The proposed program will prepare cardiovascular sonography imagining specialists to meet certification and laboratory accreditation standards. Cardiovascular technologists use ultrasound to examine the heart chambers, valves, and vessels and record information such as vascular blood flow. The program will require completion of 40 credit hours. A companion certificate, the Diagnostic Medical Sonography Program, is currently accredited by the Commission on Accreditation of Allied Health Education Programs. Four regional healthcare providers contributed \$140,000 in grants to support the first year of implementation.

PROPOSED START-UP DATE: Fall 2007

Commission staff reviewed this program proposal according to the academic standards adopted by the Commission on January 29, 1997. Each relevant standard is referenced below.

1.1.20A MISSION: The proposed program is consistent with the college's mission to prepare graduates for the workforce.

1.1.20B CURRICULUM:

<u>Curriculum Component:</u>	<u>Hours Required:</u>
Core Sonography (presently offered in DMS program)	11
Cardiovascular Didactic	15
Cardiovascular Clinical	<u>14</u>
	40

1.1.20C ACADEMIC STANDARDS:

Projected Program Productivity:

Productivity projections are based on enrollments in the CSTCC general sonography program which it has operated for over a decade; on clinical capacity; and on student-faculty ratios required by the accreditor.

Year	Full-time Headcount	Part-time Headcount	FTE	Graduates
1	12	2	13	10
2	13	3	15	12
3	13	4	16	13

Admission requirements are in accord with the American Registry for Diagnostic Medical Sonography (ARDMS) requirement that an individual applying to take the registry exam must have an associate degree with licensure/certification in a related field and one year of experience. The experience should be in a clinical role with direct patient care. Priority will be given to experience directly related to sonography or radiology technology.

1.1.20D FACULTY: One additional full-time FTE faculty is required for implementation. Employment of adjunct faculty is projected.

1.1.20E LIBRARY RESOURCES: Library resources are adequate.

1.1.20F ADMINISTRATION/ORGANIZATION: The program will be housed in the Department of Allied Health.

1.1.20G SUPPORT RESOURCES: The College has received a total of \$140,000 in grants in support of the proposed program from the following Chattanooga organizations: Memorial Hospital, Chattanooga Heart Institute, Erlanger Medical Center, and HCA Parkridge Medical Center.

1.1.20H FACILITIES/INSTRUCTIONAL EQUIPMENT: Current sonography instructional facilities (classroom and labs) will be used rotationally with the general sonography students. An ultrasound simulator with vascular scanning modules has been acquired through private funding.

1.1.20I STUDENT/EMPLOYER DEMANDS: The proposed program has the support of the Chattanooga Heart Institute and area hospitals that have indicated a significant need for cardiovascular sonography imaging specialists. Current data indicate a 42 percent understaffed imaging workforce, an anticipated additional 25 percent of sonographers leaving the workforce at retirement, and increasingly stringent requirements for certification in the specialty. Implementation of this certificate will assist the local community and region in alleviating this shortage.

1.1.20J NO UNNECESSARY DULICATION: The proposed program will be the only accredited sonography program in the state focusing on producing echocardiography and vascular technologists.

1.1.20K COOPERATIVE INSTITUTIONS: N/A

1.1 20L ASSESSMENT/EVALUATION AND ACCREDITATION: The College will seek accreditation for the certificate in its first year of operation by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) through the recommendation of the Joint Review Committee on Education in Diagnostic Medical

Sonography (JRCDMS). CSTCC's existing companion program, the Diagnostic Medical Sonography Program is currently so accredited.

The College will annually evaluate the program, applying outcomes assessment measures such as number of graduates, job placement, and certification of graduates within echocardiography and/or vascular technology.

1.1.20M ARTICULATION: N/A

1.1.20N EXTERNAL JUDGMENT: N/A

1.1.20O COST/BENEFIT/SOURCE:

**THEC Financial Estimate Form
Chattanooga State Technical Community College
Technical Certificate (40 credit hours) in Cardiovascular Sonography**

Five-year projections are required for baccalaureate and post-baccalaureate programs and certificates. Three-year projections are required for associate degrees and undergraduate certificates. Projections should include cost of living increases per year.

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
I. Expenditures					
A. One-time Expenditures					
New/Renovated Space	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment	45,500	-	-	-	-
Library	-	-	-	-	-
Consultants	-	-	-	-	-
Travel					
Other	<u>3,500</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Sub-Total One-time	\$49,000	\$ -	\$ -	\$ -	\$ -
B. Recurring Expenditures					
Personnel					
Administration					
Salary					
Benefits					
Sub-Total Administration	-	-	-	-	-
Faculty					
Salary	\$ 55,000	\$55,000	\$56,500		
Benefits	<u>11,000</u>	<u>11,000</u>	<u>11,300</u>		
Sub-Total Faculty	\$66,000	\$66,000	\$67,800	\$ -	\$ -
Support Staff					
Salary	\$4,000	\$ 4,000	\$ 4,000		
Benefits	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

Sub-Total Support Staff	\$4,000	\$ 4,000	\$ 4,000	\$ -	\$ -
Operating					
Travel	\$6,000	\$ 5,000	\$ 5,000		
Printing	800	800	800		
Equipment	1,000	1,000	1,000		
Other	4,200	3,200	3,200		
Sub-Total Operating	\$12,000	\$10,000	\$10,000	\$ -	\$ -
Total Recurring	\$82,000	\$80,000	\$81,800	\$ -	\$ -
TOTAL EXPENDITURES	\$131,000	\$80,000	\$81,800	\$ -	\$ -
(A+B)					
	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
II. Revenue					
Tuition and Fees ¹	94,548	101,000	108,000		
Institutional Reallocations ²	(33,548)	(91,000)	(31,200)	-	-
Federal Grants ³	-	-	-	-	-
Private Grants or Gifts ⁴	70,000	70,000	5,000		
Other ⁵		-	-	-	-
TOTAL REVENUES	\$131,000	\$80,000	\$81,800	\$ -	\$ -

Notes:

1. Fall 2006 is when revenues began for the program, as an institutional certificate. These are conservative estimates, assuming 1/2 in-state and 1/2 out-of-state students, minimal numbers, with minimal increases in tuition.

2. Institutional Allocations are generated through tuition and maintenance fees.

4. Organization(s) or individual(s) providing grant(s) or gift(s).

Memorial Hospital, Chattanooga, TN	40,000
Chattanooga Heart Institute, Chatt., TN	20,000
Erlanger Medical Center, Chatt., TN	40,000
CA Parkridge Medical Center, Chatt., TN	40,000

Also included is the assumption of future small grant amounts for equipment, as needed. (This is being extremely conservative, based on past history of the general diagnostic medical sonography program.)

1.1.3P POST APPROVAL MONITORING: An annual performance review of the proposed program will be conducted for the first five years following approval. The review will be based on benchmarks established in the approved program proposal. At the end of this period, campus, governing board, and Commission staff will perform a summative evaluation. The benchmarks include, but are not limited to, enrollment and graduation, program cost, progress toward accreditation, library acquisitions, student performance, and others set by the institution and agreed upon by governing board and Commission staff. As a result of this evaluation, if benchmarks are not met during the monitoring period, the Commission may recommend that the governing board terminate the program. The Commission may choose to extend the period, if additional time is needed and requested by the governing board.