Piedmont Technical College

New Program Proposal

For

Associate Degree in Health Science

Major in Cardiovascular Technology

October 2007

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Dr. Lex Walters
President

Classification

Name of Proposed Program:	Cardiovascular Technology
Academic Unit Involved:	Health Science
Designation, type and level of degree:	Associate Degree in Health Science Major in Cardiovascular Technology
Proposed Date of Implementation:	Fall 2008
CIP Code:	260907
Identification of Program:	New Program

Justification

Purposes and Objectives

The mission of Piedmont Technical College (PTC) is to respond to academic, training and public service needs through excellence in teaching and education services. PTC contributes to the economic growth and development of the largest geographical region of the technical college system: Abbeville, Edgefield, Greenwood, Laurens, McCormick, Newberry, and Saluda counties. In support of this mission, PTC proposes to develop and implement an Associate in Health Science with a major in Cardiovascular Technology (CVT) to assist in meeting cardiac health needs throughout the state.

This proposal supports a two-year associate degree program designed primarily as a terminal degree. The goal of the proposed program is to provide graduates with the required competencies to successfully complete the professional certification in their chosen specialization (invasive or noninvasive track) as determined by the Joint Review Committee on Education in Cardiovascular Technology (JRC-CVT). The college will seek accreditation for the proposed program from the JRC-CVT in the fall of 2008.

Graduates of the program in both the invasive and noninvasive tracks will be able to:

- Provide quality care as a competent and compassionate professional in the dynamic cardiac environment.
- Utilize theoretical knowledge and critical thinking as the basis for professional practice.
- Practice responsibly within the ethical and legal realms of a cardiovascular technologist.
- Assist the cardiologist with diagnostic and therapeutic procedures utilizing medical and surgical asepsis when setting up for and performing various cardiac procedures.
- Create a database from which a correct anatomical and physiological diagnosis may be developed.

Need for Program

Based upon the 2007 American Heart Association update, cardiovascular disease is the number one killer in the United States. This number is expected to rise as the population ages because older adults often have more cardiovascular problems. Due to the increased use of diagnostic imaging, the US Department Bureau of Labor Statistics has reported cardiovascular technologists as one of the fastest growing occupations through 2014.

The U.S. Census Bureau State and County Quick Facts reported a 12.6% increase of persons 65 years old and over in South Carolina from 2000 – 2005. Counties in the PTC service area contribute significantly to this growth trend due to retirees relocating in

areas such as Savannah Lakes, Lake Russell, and Lake Greenwood. The significant increase of persons over 65 years of age relocating in South Carolina, combined with the population of native South Carolinians, support the growing need for health care services, especially those related to cardiovascular awareness and treatment. In 2001, diseases of the heart accounted for 25.8% of deaths in South Carolina in adults aged 65 to 74. For the population aged 75 and older, cardiovascular disease accounted for 29.9% of the deaths in the state. Astonishingly, considering the high incidence of cardiac disease in South Carolina, there is not a public cardiovascular program to prepare technicians to work with cardiologists and cardiovascular facilities in the state.

Data from the U.S. Department of Labor Statistics reports there were approximately 45,000 jobs in cardiovascular technology in 2004. Based on this information and a growing concern expressed by healthcare providers throughout the state, PTC conducted a needs survey. PTC received permission to survey the entire state with the exception of the counties serviced by Midlands and Aiken Technical Colleges. The survey results indicate an immediate need for over 75 full-time technicians (non-invasive and invasive combined). There is an anticipated need for 72 full-time technicians for 2008, 36 in 2009, and 32 in 2010.

PTC's needs assessment supports national and state-wide trends seen in the cardiovascular technology field. Approximately 70% of the survey respondents projected the average entry-level salary for full-time cardiovascular technicians as roughly $42,100. This is consistent with the US Department of Labor's data that the median salary for entry-level cardiovascular technicians was $38,180 in 2004.

Centrality to College Mission

PTC's mission is to support the needs of area employers by educating and graduating well-trained, professional, and knowledgeable employees. PTC serves seven counties, with a total of five hospitals – four of which offer cardiac services. Self Regional Healthcare offers extensive cardiac services including open heart surgery. As noted above, the proposed program is designed to serve the needs of the state by preparing competent cardiovascular technicians.

Relationship to Other College Programs

Through the Health Science, Biological and Chemical Division, PTC offers associate degree and diploma programs in several health science related fields including the following: Pharmacy Technology, Respiratory Care Technology, Radiologic Technology, Medical Assisting Technology, and Surgical Technology all of which are nationally accredited by the representative professional accrediting agencies. Certificates are offered in Massage Therapy, Medical Coding and Billing, Patient Care Technology, Phlebotomy and Veterinary Technology. All of the health science programs were in good standing during the 2005-2006 program evaluation process. The proposed

program will bring a new and exciting dimension to the wide array of health care programs offered at PTC. All of the general education courses required for the proposed program currently exist within the college's course offerings.

The profession of cardiovascular technology encompasses four areas of diagnostic evaluation: (1) invasive cardiology; (2) noninvasive cardiology; (3) noninvasive peripheral vascular study; and (4) cardiac electrophysiology. PTC intends to offer the invasive and noninvasive tracks, giving the student the option of choosing a specialty area.

Relationship to External Programs

Currently there is not a CVT program in the South Carolina Technical College System (SCTCS). There is an eighteen-month certificate program for adult echocardiography and vascular technology offered by Sisters of Charity Providence Hospital in Columbia, SC. The director of that program has submitted a letter of support for PTC to offer the proposed associate degree program.

The design of the curriculum will be such that students may obtain general education courses at the technical college in their home area. Piedmont intends to partner with various agencies to establish clinical affiliations throughout the state, thus allowing students to complete clinical course requirements in local settings. Each clinical site will have to meet the JRC-CVT criteria and adhere to the set guidelines.

Enrollment

The CVT program admission criteria will follow that of other Health Science Associate degree programs. The criteria will be as follows:

- High school diploma or equivalent
- Appropriate placement scores on COMPASS
- Completion of ENG 101, BIO 210, PSY 201, and MAT 102 with a 2.5 GPA
- High school biology, chemistry, physics and computer science highly recommended
- Demonstrate computer competency
- Submit to a criminal background check and drug screening

Projected Total Student Enrollment

The proposed CVT degree is expected to generate a total enrollment of 24 full-time students in the first semester of the program. This figure is based on the job opportunities identified in the employment needs survey and the continued growth in the field. The program enrollment for the second and third years is estimated at 38 and 41, respectively, with 24 new students enrolling each year. The enrollment projections include an anticipated attrition rate of 30% after the first summer term, due to lack of academic preparation, failure to maintain the required GPA, transfer to other academic programs or institutions, or personal problems. PTC anticipates graduating approximately 14-17 students from the program annually.

Shown below are the projected student enrollment numbers and the credit hours per semester. The credit hours are multiplied by the projected head count.

Projected Total Student Enrollment

	Fall		Spring		Summer	
	Headcount	**Credit Hours (16)**	**Headcount**	**Credit Hours (13)**	**Headcount**	**Credit Hours (10)**
2008-09	**24**	**384**	**19**	**247**	**17**	**170**
2009-10	**38**	**608**	**36**	**468**	**34**	**340**
2010-11	**41**	**656**	**38**	**494**	**36**	**360**

Estimated Additional Enrollment

	Fall		Spring		Summer	
	Headcount	**Credit Hours (16)**	**Headcount**	**Credit Hours (13)**	**Headcount**	**Credit Hours (10)**
2008-09	**16**	**256**	**15**	**195**	**14**	**140**
2009-10	**24+14=38**	**608**	**22+14=36**	**468**	**20+14=34**	**340**
2010-11	**24+17=41**	**656**	**21+17=38**	**494**	**19+17=36**	**360**

Curriculum

Model Requirements

The program will offer two tracks of study – invasive and non-invasive. Students will take common courses the first year but will choose a specialty track of study the second year. The model is based on information obtained from twenty-two of the thirty-three JRC-CVT accredited programs throughout the United States.

Proposed Curriculum Configuration

Cardiovascular Technology

First Semester

AHS 102	Medical Terminology	3-0-3
BIO 210	Human Anatomy and Physiology I	3-3-4
ENG 101	English Composition I	3-0-3
MAT 102	Intermediate Algebra	3-0-3
PSY 201	General Psychology	3-0-3
TOTAL		15-3-16

Second Semester

AHS 112	Chemistry for Health Science	3-3-4
BIO 211	Human Anatomy and Physiology II	3-3-4
CVT 101	Introduction to Cardiovascular	2-0-2
CVT 102	Cardiac and Vascular Pathophysiology	3-0-3
TOTAL		11-6-13

Summer Term

AHS 106	Cardiopulmonary Resuscitation	1-0-1
CVT 120	Invasive Cardiology I	2-3-3
CVT 140	Non-Invasive Cardiology I	2-3-3
CVT 103	Cardiovascular Pharmacology	3-0-3
TOTAL		8-6-10

Non-Invasive Track
Second Year

Fourth Semester

CVT 141	Non-Invasive Cardiology II	3-0-3
CVT 142	Non-Invasive Cardiology Clinical I	0-15-5
CVT 104	Cardiovascular Assessment	2-3-3
AHS 178	Health Science Physics and Medical Instrumentation	3-3-4
TOTAL		8-21-15

Fifth Semester

CVT 143	Non-Invasive Cardiology III	3-0-3
CVT 144	Non-Invasive Cardiology Clinical II	0-15-5
CVT 105	Cardiovascular Rehabilitation and Prevention	3-0-3
	Humanities Elective	3-0-3
TOTAL		9-15-14

Sixth Semester (Summer Term)

CVT 145	Non-Invasive Cardiology Clinical III	0-24-8
CVT 146	Non-Invasive Cardiology Special Topics	2-0-2
TOTAL		2-24-10

Invasive Track
Second Term

Fourth Semester

CVT 121	Invasive Cardiology II	3-0-3
CVT 122	Invasive Cardiology Clinical I	0-15-5
CVT 104	Cardiovascular Patient Assessment	2-3-3
AHS 178	Health Science Physics and Medical Instrumentation	3-3-4
TOTAL		8-21-15

Fifth Semester

CVT 123	Invasive Cardiology III	3-0-3
CVT 124	Invasive Cardiology Clinical II	0-15-5

CVT 105	Cardiovascular Rehabilitation and Prevention	3-0-3
	Humanities Elective	3-0-3
TOTAL		9-15-14

Sixth Semester (Summer Term)

CVT 125	Invasive Cardiology Clinical III	0-24-8
CVT 126	Invasive Cardiology Special Topics	2-0-2
TOTAL		2-24-10

Courses to be added to the SBTCE/College Catalog

The college will add 21 courses to the local college catalog and 20 courses to the State Board for Technical and Comprehensive Education's (SBTCE) statewide catalog of approved courses. Chemistry for Health Science, AHS 112, is currently listed in the SBTCE catalog and will be added to the college's catalog. The suggested new course numbers and descriptions follow.

CVT 101 Introduction to Cardiovascular Technology

This course provides an overview of cardiovascular technology and the role of the cardiovascular technologist. The importance of professionalism, ethical behavior, communication, and legal aspects will be stressed.

CVT 102 Cardiovascular Pathophysiology

The course will focus on clinical recognition and detection of medical, surgical, acquired, and congenital cardiovascular disorders and diseases.

CVT 103 Cardiovascular Pharmacology

The course is designed to provide the cardiovascular technology student with pharmacological concepts needed to function in the clinical environment.

CVT 104 Cardiovascular Patient Assessment

This course introduces the concepts and techniques of patient assessment through inspection, palpation, percussion, and auscultation. Demonstrating proficiency in patient physical examination and taking a complete patient medical history will be stressed.

CVT 105 Cardiovascular Rehabilitation and Prevention

This course is designed to introduce students to the cardiovascular rehabilitation continuum of care, and to help students acquire an applied knowledge and appreciation for cardiovascular disease prevention.

CVT 120 Invasive Cardiology I

The course introduces the student to the specific procedures performed in the cardiac catheterization laboratory and use of resulting data for patient diagnoses. Aseptic techniques, sterilization, radiology, equipment and test used in cardiac catheterization, hemodynamics, and analysis are topics that would be included.

CVT 121 Invasive Cardiology II

This course will focus on an in-depth presentation of various cardiac diseases and the use of equipment and techniques used in invasive cardiology. Various calculations performed in the catheterization lab will be introduced.

CVT 122 Invasive Cardiology Clinical I

This course is an introduction to the cardiac catheterization lab in a clinical setting. Emphasis is placed on instrumentation, sterile technique, and entry-level scrub/circulation responsibilities.

CVT 123 Invasive Cardiology III

This course will offer an intensive study of the role of the cardiac catheterization technologists in advanced cardiovascular procedures related to catheterization.

CVT 124 Invasive Cardiology II

This course is a continuation of skills required to work in a clinical catheterization laboratory. Focus will be on catheterization lab procedures, scrub and circulatory responsibilities, equipment hemodynamics monitoring, and the coronary angiography procedure.

CVT 125 Invasive Cardiology Clinical III

This clinical course is designed to give students the opportunity to gain additional supervised clinical experience in the catheterization laboratory performing all duties involved in diagnostic and interventional cases.

CVT 126 Invasive Cardiology Special Topics

This course is an in-depth review of invasive cardiac topics.

CVT 140 Non-Invasive Cardiology I

This course presents an introduction to non-invasive cardiology and diagnostic tests used.

CVT 141 Non-Invasive Cardiology II

This course incorporates all forms of non-invasive cardiovascular evaluation with emphasis on performance and interpretation of M-mode, 2-dimensional, and Doppler echocardiography.

CVT 142 Non-Invasive Cardiology Clinical I

This course introduces the student to the clinical environment. Emphasis will be on patient preparation, recording medical information and performing specific non-invasive tests.

CVT 143 Non-Invasive Cardiology III

This course will emphasize the latest modalities and specialties of non-invasive diagnostic study. Research methods, statistics, and qualify improvement will be included.

CVT 144 Non-Invasive Cardiology Clinical II

This course provides for supervised hands-on experiences in performing non-invasive cardiovascular procedures with emphasis or instrumentation and development of clinical techniques.

CVT 145 Non-Invasive Cardiology Clinical III

This course is a continuation of hands-on experiences in the clinical environment with an emphasis placed on the development of clinical techniques used to obtain meaningful data.

CVT 146 Non-Invasive Cardiology Special Topics

This course is an in-depth review of non-invasive cardiac topics.

AHS 178 Health Science Physics and Medical Instrumentation

This course introduces principles and applications of physics as it relates to medical instrumentation.

Clinical Affiliations

Based on the needs survey, sixteen hospitals statewide expressed a willingness to commit to a clinical affiliation agreement. Many responses included comments related to the difficulty in recruiting personnel and the extreme cost of working with staffing agencies that contract with health-care professionals, known as "travelers."

Faculty

Rank and Academic Qualifications

List Staff by Rank (e.g. Professor #1, Professor #2, Associate Professor #1, etc.)	**Highest Degree Earned**	**Field of Study**	**Teaching in Field (yes / no)**
Program Coordinator / Instructor (1)	BS minimum	Cardiovascular Technology	Yes
Clinical Instructor	BS minimum	Cardiovascular Technology	Yes

Qualifications of New Faculty and Staff

The qualifications for new faculty will be based on Commission on Accreditation of Allied Health Education Programs (CAAHEP) requirements published in the *Standards and Guidelines for Cardiovascular Technology Educational Programs*. According to CAAHEP requirements, the program coordinator will be a "qualified faculty member who possesses a higher level of education than that for which the students are being prepared. The program director must be registered in at least one of the cardiovascular specialties for which he/she assumes a primary teaching role." The program coordinator will have a minimum of a baccalaureate degree and will be credentialed in a minimum of one specialty modality. The clinical instructor will hold a minimum of a baccalaureate degree, will be credentialed, and have clinical experience in at least one clinical modality.

Accreditation criteria require a medical director who "must be a licensed physician, board certified in the field that he or she is practicing with recognized qualifications in the diagnosis of cardiac and/or vascular disease." There is a physician in the PTC service area who has agreed to serve as medical director for the proposed program at no charge to the college.

Proposed Changes in Assignment of Current Employees

The existing organizational structure allows for CVT to become one of the Health Science, Biological and Chemical Division programs. There are no anticipated changes in assignments of administration or staff.

Institution Plans for Faculty Professional Development

The college's plan for faculty development includes the following:

- Requirement for new faculty to attend a series of in-house new faculty in-service programs known as PTC 101 and 102. Professional portfolios are a requirement.
- Financial support to attend conferences, seminars, and workshops related to cardiovascular technology.
- Multiple in-house instructional development workshops/sessions on topics such as active learning, student assessment, diversity and technological teaching advancements, i.e. WebCT, PEN, etc. These are presented on specific in-service days.
- The opportunity to take one PTC course per semester at no charge to the employee
- Financial support from the PTC Foundation for courses taken outside of the institution that lead to professional advancement. This is beneficial in aiding employees to attain CEU's as required for on-going credentialing.

Institutional Definition of Full-Time Equivalent Faculty Member

For faculty in the Health Science, Biological and Chemical Division, PTC defines an FTE faculty member as an instructor who teaches 24 contact hours per semester. The contact hour requirement for a program coordinator is reduced to 20.

Headcount and FTE of Faculty, Administration, Staff

No new administrative or support staff will be required. The Dean of the Health Science, Biological and Chemical Division will assume administrative responsibilities. Instructional support will be the responsibility of the Health Science Administrative Specialist. On average, the increased responsibilities of administration and staff are estimated to be 10% of an FTE.

UNIT ADMINISTRATION / FACULTY / STAFF SUPPORT						
YEAR	**NEW**		**EXISTING**		**TOTAL**	
	Headcount	**FTE**	**Headcount**	**FTE**	**Headcount**	**FTE**
Administration						
2008-2009			**1**		**1**	**.10**
2009-2010			**1**		**1**	**.10**
2010-2011			**1**		**1**	**.10**
Faculty						
2008-2009	**2**	**1.5**			**2**	**1.5**
2009-2010	**2**	**1.5**			**2**	**1.5**
2010-2011	**2**	**1.5**			**2**	**1.5**
Staff						
2008-2009			**1**	**.10**	**1**	**.10**
2009-2010			**1**	**.10**	**1**	**.10**
2010-2011			**1**	**.10**	**1**	**.10**

Library

Library Overview

The staff of the PTC library selects, purchases, processes, catalogs, maintains, and disseminates information resources and provides library instruction to students, faculty, and staff on the Lex Walters Campus in Greenwood, the college's six outlying county centers, and online. They also maintain an extensive library Web site that offers 24-hour information about services and materials, access to the library catalog and online resources, and instructional materials.

The main library is a 20,000 square-foot facility that houses most of the college's physical resource collection, a 30-computer lab, and comfortable space for study, research and reading. Staffed Library Resource Centers (LRC's) operate on the Laurens and Newberry campuses. The LRC combines the function of the library, a computer lab, and a testing center. Students and faculty using the LRCs will find circulating and reference books, popular magazines and newspapers, audiovisual materials, and access to Internet computers that connect them to the same online resources that are available on the Greenwood campus. Part-time LRC coordinators either assist students on site or refer them to library staff at the main library who can help satisfy their research needs.

A daily courier service delivers most library materials to any college location at the request of students or faculty. Requests may be made via an online form or by talking to a library or LRC staff member. Descriptions of library services, resources and policies

also appear in the college catalog, on the Web site, and on various printed promotional materials such as bookmarks and brochures.

Comparison of Current Holdings to Peer Institutions

There are no existing associate degree CVT programs in the state with which to make a comparison.

Cardiovascular Technology Resources

Within the existing collection, library users will already find many resources related to the study and practice of CVT. The library collection includes a variety of print, audiovisual, and computer media as well as access to a wide array of Web-based resources. Visitors have access to a Web-based library catalog when searching for books, audiovisual items, or periodical titles.

The library staff has identified 323 current journal and serial subscriptions pertaining to cardiovascular technology.

Books

A recent bibliography compiled by the library staff shows 82 existing book and audiovisual holdings relating to CVT. Additionally, students and faculty are able to request books from any university or college library in South Carolina, including those that offer degrees related to cardiovascular studies. These books arrive within two days at no expense to the requestor. A second inter-library loan program allows students and faculty to request books or articles from other libraries nationwide.

Electronic Books/Periodical Literature

Within the 46,000+ searchable, full-text books owned by the library, students and faculty will find almost 4,700 titles relating to CVT, and 61% of the these titles have been published within the last five years. Through the various electronic databases offered by the library, students and faculty can access many citations and/or full-text articles that originate from the journals and reference sources (many peer-reviewed) pertaining to CVT. These resources are accessible 24/7 via the Internet computer.

Three-Year Acquisitions Plan with Estimates

Further collection development efforts to support the two-year degree in CVT will begin as soon as the program is approved. In addition to faculty recommendations, librarians will use collection development resources such as *Library Journal, Choice Reviews, Best Books for Academic Libraries*, and trade association publications.

The table below shows library funds that have been earmarked for the CVT collection over the next three years. Amounts may be adjusted as the program grows and/or as the Library's budget allowance changes.

	2008-2009	2009-2010	2010-2011	Total
Books 10 @ $30 each	$300	$300	$300	$900
Serials 2 @ $50 each with annual renewals	$100	$100	$100	$300
AV Materials 6 @ $50 each	$300	$300	$300	$900

Physical Plant

Physical Plant Requirements

Prior to the beginning of the program, a 1600 square foot existing facility in the center of campus will be renovated to accommodate the CVT program at an estimated cost of $100,000. The area will be a combination non-invasive space with a minimum of four cubicles and an area dedicated to techniques/ procedures such as sterility, instrumentation, etc. needed to support the invasive phase of the program. The space requirements and design are based on information obtained from accredited CVT programs across the United States. The college projects that these accommodations will meet the physical plant needs of the program for the first three years of the program and beyond. The college's Allied Health Initiative appropriation will be the source of funding.

Equipment

Major Equipment:

Items costing over $5,000 each are identified as major equipment and will cost approximately $576,000. In addition to major equipment, it is estimated that an additional $102,415 will be needed for the purchase of other materials and supplies.

A request of $525,000 was submitted to the Duke Endowment through Self Regional Healthcare and has been granted. Allocation will be over a three-year period with the largest portion awarded the first year for program start-up. The funds will be used for equipment and supplies as well as salary supplements. Self Regional Healthcare has committed $150,000 ($50,000 annually for three years) and PTC Foundation will contribute $20,000 annually for three years totaling $60,000.

Itemized List of Major Pieces of Equipment

Galaxy Ultrasound Machine	$150,000
Brodex Medical System Bed	$5,900
Ultra-Sim Patient Simulators	$62,000
Patient Simulator Vascular Module	$8,200
Medrol Injector	$25,000
Rotoblater Arthrectomy System	$100,000
AutoCat Intra-Aortic Balloon Pump	$42,000
M Series Biphasix Debibrillator	$10,000
Oxicom 300 Oximeter	$7,900
Seimens Sequoia	$165,000
TOTAL	$576,000

Accreditation, Approval, Licensure or Certification

Accreditation or Approval by any State Agency

There is not a state agency that certifies/licenses CVT's.

Graduates are subject to licensure or certification by public or private agency.

CAAHEP accredits programs in CVT education, upon the recommendation of the JRC-CVT. The proposed program design follows the standards set forth by JRC-CVT in anticipation of applying for national accreditation at an initial cost of $8,500 in the fall of 2008 which will ensure the first class graduating from an accredited program in 2010. Due to the fact that formal cardiovascular educational programs are relatively new in health care education, accreditation is not mandated; however, there is activity leading to this becoming a requirement. In order for individuals to take the national exam, they must be a graduate of a cardiovascular technician program or hold a minimum of an associate degree in a health care discipline, be credentialed in the discipline, and have work experience in cardiovascular. Credentialing is the responsibility of Cardiovascular Credentialing International (CCI) which is the result of the merging of the testing components of the National Alliance of Cardiovascular Technologists (NACT), the American Cardiology Technologists Association (ACTA), and the National Board of Cardiovascular Testing (NBCVT). CCI represents the summation of testing processes for the cardiovascular professional that began in the 1960's. Following the JRC-CVT standards will prepare graduates for the national certification exam.

Estimated Cost

New expenditures: three-year projections

The "New Costs to the Institution and Sources of Financing" table that follows itemizes the new expenses which the college will incur over the first three years of program initiation.

NEW COSTS TO THE INSTITUTION AND SOURCES OF FINANCING

ESTIMATED COSTS BY YEAR				
CATEGORY	1ST	2ND	3RD	Totals
Program Administration				
Faculty Salaries	$115,000	$118,450	$122,003	$355,453
Graduate Assistants				
Clerical/Support Personnel				
Supplies and Materials	$42,415	$30,000	$30,000	$102,415
Library Resources	$700	$700	$700	$2,100
Equipment	$500,000	$45,000	$31,000	$576,000
Other (Accreditation)	$8,500	$500	$500	$9,500
Facilities (Funded through Allied Health Initiatives)	$100,000	$0	$0	$100,000
TOTALS	$766,615	$194,650	$184,203	$1,145,468
SOURCES OF FINANCING BY YEAR				
Estimated FTE Revenue Generated from the State (See note on page 25).	$0	$23,550	$69,588	$93,138
Tuition Funding (new student only)	$33,024	$76,626	$76,626	$186,276
Other State Funding (Legislative Approp.)*	$0	$0	$0	$0
Reallocation of Existing Funds*	$288,591	$0	$0	$288,591
Federal Funding*	$0	$0	$0	$0
Other Funding (Endowment, Auxiliary, etc.) Self Regional Healthcare - $150,000 over 3 year period, PTC Foundation - $60,000 over 3 year period), Duke Endowment - $525,000 over 3 year period)	$445,000	$145,000	$145,000	$735,000
TOTALS	$766,615	$245,176	$291,214	$1,303,005

*Specify sources (s) (e.g., Special Item Appropriation, Auxiliary Enterprise Funds, Endowment Income, special grant or contract, etc.)

PIEDMONT TECHNICAL COLLEGE
INSTITUTIONAL APPROVAL
Associate Degree in Health Science
Major in Cardiovascular Technology

Action to seek approval from the South Carolina Commission on Higher Education to offer an Associate Degree in Health Science with a Major in Cardiovascular Technology has been reviewed and approved by all relevant administrative bodies at Piedmont Technical College. This includes the following:

1) The Dean of Health Science, Biological and Chemical Division
2) The Senior Vice President
3) The Vice President of Educational Affairs
4) The President of Piedmont Technical College

Piedmont Technical College Area Commission

Approval Date: 10/16/2007