



LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**Changing Lives,
Creating Futures**

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TO: Dr. Monty Sullivan
LCTCS President

THROUGH: Dr. Wendi Palermo ^{WP}
Chief Education and Training Officer

FROM: William Tulak ^{WT}
Director of Institutional Effectiveness

DATE: November 3, 2023

SUBJECT: Program Requests at Delgado Community College

APPROVED
 12/13/23
LCTCS BOARD OF SUPERVISORS

FOR BOARD ACTION

Recommendation: Staff recommends the Board approve the following program requests listed below.

Program Additions

1. Associate of Applied Science (AAS) in Invasive Cardiovascular Technology (CIP 51.0901) - **4 Stars**
2. Post Associate Certificate (PAC) in Invasive Cardiovascular Technology (CIP 51.0901) - **4 Stars**

Background: Delgado Community College proposes a 60-credit hour degree program in Invasive Cardiovascular Technology. Program graduates will be eligible to sit for the national board examination administered by Cardiovascular Credentialing International (CCI). The AAS is a generalist program that aims to address the increasing demand for trained professionals in cardiovascular care. The program was developed in collaboration with Delgado's partners Ochsner and Touro hospitals. The Post-Associate Certificate provides those already working in the healthcare field, primarily in the general field of Radiologic Technology, with the opportunity to expand their knowledge to the field of Invasive Cardiovascular Technology.

Fiscal Impact: There will be no fiscal impact unless otherwise noted.

History of Prior Actions: There is a history of revising programs to meet student and workforce needs.

Benefits to the System: These requests will allow Delgado Community College to better meet student and workforce needs.



Approved for Recommendation to the Board
Dr. Monty Sullivan, President

12/13/23

Date

Invasive Cardiovascular Technology, A.A.S. - 11/02/2023

TYPE OF PROPOSED CHANGE : New Program

PROGRAM NAME : Invasive Cardiovascular Technology, A.A.S.

AWARD LEVEL(S)

For Board of Regents and LCTCS Review:

Associate of Applied Science (A.A.S.)

Name:

For LCTCS Review:

Technical Diploma (T.D.)

Certificate of Technical Studies (C.T.S.)

Career and Technical Certificate (C.T.C)

TCA - For Archive Purpose Only

NAME OF PROGRAM(S) and AWARD LEVEL(S)

Stars : 4 Stars

Name: Invasive Cardiovascular Technology

Program Delivery Mode: Standard

CIP: 510901

Credit Hours: 60.00

Contact Hours: 1875.00

Associate of Applied
Science (A.A.S.)

PROPOSED CHANGE

a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.

In the Spring of 2022, hospital industry partners, Ochsner Clinics & Hospitals, and Touro Hospital expressed a need for trained personnel in Invasive Cardiovascular procedures to work side-by-side with interventional cardiologists to assist with the diagnosis and treatment of cardiovascular disease. This generalist degree program, along with a separate proposal for the specialist Post-Associate Certificate program, will prepare students to assist in cardiac catheterization procedures. These two proposals are being submitted simultaneously, and the purpose and primary objectives of both programs are very similar. By offering both programs, Delgado can serve more students and by extension the entire community.

The goal of the 60-credit hour degree program in Invasive Cardiovascular Technology is to prepare competent entry-level cardiovascular technicians in the cognitive, psychomotor, and affective learning domains for invasive cardiovascular technology. Program graduates will be eligible to sit for the national board examination administered by Cardiovascular Credentialing International (CCI). Local and regional healthcare providers (Ochsner and Touro) approached the College with the need for development of a training program for technicians working in Invasive Cardiovascular units. This generalist program aims to address the increasing demand for trained professionals in cardiovascular care, and the collaboration with our partners at Ochsner and Touro hospitals underscores our commitment to provide this vital support to the healthcare communities in the New Orleans metropolitan area and beyond.

In addition, there are many high-wage, high-demand employment opportunities for graduates in this field and related fields in allied health with a star rating of 4-5. Regional growth is anticipated to be the largest in Orleans Parish, Jefferson Parish, and East Baton Rouge Parish. Courses and the subject area are new to the College though the College has extensive experience with health science education.

IMPLEMENTATION DATE (Semester and Year)	Fall 2024
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HISTORY OF PRIOR ACTIONS
Provide an overview of changes to this program.
N/A

JUSTIFICATION FOR THE PROPOSED CHANGE
Include support such as four-year university agreements, industry demand, advisory board information, etc.

In the Spring of 2022, hospital industry partners, Ochsner Clinics & Hospitals and Touro Hospital expressed a need for trained personnel in Invasive Cardiovascular procedures to work side-by-side with interventional cardiologists to assist with the diagnosis and treatment of cardiovascular disease. Hospital administrators from Touro Hospital and Ochsner Hospital approached Delgado's Dean of Allied Health and expressed their concern about the growing demand for skilled Invasive Cardiovascular Technicians, a need that was outpacing the availability of trained professionals. Hospital administrators requested that Delgado develop a comprehensive Invasive Cardiovascular Technician program. This program aims to address the increasing demand by providing specialized training to individuals interested in pursuing a career in this vital field of healthcare. This collaboration between hospital administrators and Delgado's School of Allied health underscores their commitment to bridging the gap between the rising demand for skilled Cardiovascular Technicians and the limited supply of trained professionals. The College is also working with the following partners to create an educational and career pipeline for this program: New Orleans Public School system Career Academies, Jefferson Parish Public School system Career Academies, University of New Orleans, University of Holy Cross, and Nunez Community College.

The proposed Associate Degree program will further the mission of Delgado by offering a program that prepares graduates to fulfill a critical specialty need in the Greater New Orleans area and state-wide in Invasive Cardiovascular technology. Graduates of this program will become high-qualified, highly paid, respected members of the community who not only will be able to provide for themselves and their families but will also contribute greatly to the economy of the State of Louisiana and the health of its citizens. The Bureau of Labor Statistics projects nearly a 5% employment growth for cardiovascular technicians between 2021 and 2031. A similar trend in employment is expected to occur in Louisiana.

Louisiana's population continues to require quality healthcare services, especially given the prevalence of cardiovascular diseases and related conditions. The demand for invasive cardiovascular procedures, diagnostics, and treatments is increasing, leading to higher demand for skilled technicians who can assist cardiologists with cardiac catheterization procedures. As the population ages, the incidence of cardiovascular diseases tends to rise. This creates a demand for healthcare professionals who can address the complex needs of older patients including those requiring invasive cardiovascular interventions. Expanding the healthcare workforce and training residents of Louisiana for high-demand jobs has a positive economic impact by creating good paying jobs that contribute to the overall growth of the economy of Louisiana. The education and training provided by the program promote a culture of continuous learning and professional development. Graduates would not only fill an immediate labor market gap but also become lifelong learners, adapting to evolving medical technologies and practices to maintain the highest standards of patient care. The development of a new training program for Invasive Cardiovascular Technicians in Louisiana is poised to be a pivotal solution to address the significant deficit of approximately 85 trained professionals each year. This training program would serve as a direct response to a growing demand for skilled healthcare workers in this field, effectively bridging the gap between the supply of trained technicians and the pressing needs of medical facilities. The development of this new training program not only addresses the existing deficit of trained professionals but also aligns with the broader mission of improving healthcare outcomes, supporting economic growth, and advancing education for the betterment of the public.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus

QUALIFIED FACULTY (Check all that apply)

Use Existing Faculty: Yes # - Full Time: 7 # - Part Time: 0	Hire Adjunct Faculty: No # - 0	Hire Full-Time Faculty: Yes # - 1
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ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: A.A.S. in Invasive Cardiovascular Technology or Radiologic Technology	Experience:	Certification: Current Allied Health Certification or Licensure

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS
Department : School of Health Sciences--Allied Health
Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.
The addition of the degree program in Invasive Cardiovascular Technology will have no affect on the administrative structure of the School/College. Moreover, the College has adequate support resources to accommodate students in this new degree program and does not foresee any re-allocation of departmental funds. This program may likely require the addition of at least one full-time faculty member in the field.

ANTICIPATED ENROLLMENT:					
Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	10	15	15	17	18
EVENING					
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	This enrollment projection is based upon a review of enrollment in Allied Health courses, industry demand and job availability in the field, as well as the availability of College resources and clinical placement.				

PROGRAM ACCREDITATION:	
Is Program Accreditation, Licensure or Certification Required?	No Accreditation status: N/A
Type/Name of Program Accreditation, Licensure or Certification Required:	

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

PROGRAM CURRICULUM

Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.

Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration: Invasive Cardiovascular Technology, A.A.S. (see attachment)					Credit Hours: 60.00		

BENEFITS TO THE SYSTEM

Discuss how this change will benefit your students, your community, and the LCTCS.

This A.A.S. degree in Invasive Cardiovascular Technology will have a significant impact on our students, our community, and the LCTCS. It provides students with an excellent opportunity for a high-wage, high demand career in the healthcare industry. Regional growth in this specialized area is anticipated to be the largest in Orleans Parish, Jefferson Parish, and East Baton Rouge Parish. As the population ages, the incidence of cardiovascular disease tends to rise, and hospital administrators have expressed their concern about the growing demand for skilled Invasive Cardiovascular technicians. As evidenced by the attached letters from Ochsner and Tour hospitals, there is a great need in the region for this program to fill vacancies and to support healthcare practitioners in the area. This program directly addresses this need by providing graduates who can adapt to evolving medical technologies while also maintaining the highest standards of patient care. By providing workforce opportunities to graduates of the program and by fulfilling an urgent healthcare need in the community, this program benefits LCTCS by fulfilling the goal of equitable prosperity for students while also providing a much needed service to the community.

KEYWORDS

Invasive Cardiovascular Technology, P.A.C. - 11/02/2023

TYPE OF PROPOSED CHANGE : New Program

PROGRAM NAME : Invasive Cardiovascular Technology, P.A.C.

AWARD LEVEL(S)

For Board of Regents and LCTCS Review:

Post Associate Certificate

Name:

For LCTCS Review:

Technical Diploma (T.D.)

Certificate of Technical Studies (C.T.S.)

Career and Technical Certificate (C.T.C)

TCA - For Archive Purpose Only

NAME OF PROGRAM(S) and AWARD LEVEL(S)

Stars : 4 Stars

Name: Invasive Cardiovascular Technology

Program Delivery Mode: Standard

CIP: 510901

Credit Hours: 30.00

Contact Hours: 1170.00

Post Associate Certificate

PROPOSED CHANGE

a) For New Programs, state the purpose and objective; b) For Curriculum Modifications, state previous credit and clock hours; c) For Program Termination, state program and all award levels; d) For Curriculum Adoption, state the college from which curriculum is being adopted and the date it was approved by LCTCS.

In the spring of 2022, hospital industry partners, Ochsner Clinics & Hospitals and Touro Hospital expressed a need for trained personnel in Invasive Cardiovascular procedures to work side-by-side with interventional cardiologists to assist with the diagnosis and treatment of cardiovascular disease.

This proposal for the Post-Associate Certificate in Invasive Cardiovascular Technology accompanies the proposal for the Associate of Applied Science in Invasive Cardiovascular Technology. These two proposals are being submitted simultaneously, and the purpose and primary objectives of both programs are similar. By offering both programs, Delgado can serve more students and by extension the entire community. The Associate degree program provides many first-time entrants into the healthcare field with the opportunity for a high-paying career in this increasingly high demand area. The Post-Associate Certificate provides those already working in the healthcare field, primarily in the general field of Radiologic Technology, with the opportunity to expand their knowledge to the field of Invasive Cardiovascular Technology and to pursue additional career opportunities in this growing field. This 30-credit hour program will be limited to those students with existing Associate or Baccalaureate degrees in the related healthcare field of Radiologic Technology. Radiologic Technologists, who are licensed and practicing, often wish to enter the field of Cardiovascular Technology; and, the creation of the Post-Associate Certificate for students with existing degrees and licensure/certification will provide a pathway for post-degree study in this field. The goal of the Post-Associate Certificate program is identical to that of the proposed A.A.S. degree counterpart, but it is designed for a specific audience. The goal of the 30-credit Post-Associate Certificate is to prepare competent cardiovascular technicians in the cognitive, psychomotor, and affective learning domains for invasive cardiovascular technology. Program graduates will be able to sit for the national board certification examination, which is administered by Cardiovascular Credentialing International (CCI).

In addition, there are many high-wage, high-demand employment opportunities for graduates in this field and related fields in allied health with a star rating of 4-5. Regional growth is anticipated to be the largest in Orleans Parish, Jefferson Parish, and East Baton Rouge Parish. Courses and the subject area are new to the College though the College has extensive experience with health science education.

**IMPLEMENTATION DATE
(Semester and Year)**

Fall 2024

**HISTORY OF PRIOR ACTIONS
Provide an overview of changes to this program.**

N/A

**JUSTIFICATION FOR THE PROPOSED CHANGE
Include support such as four-year university agreements, industry demand, advisory board information, etc.**

In the Spring of 2022, hospital industry partners, Ochsner Clinics & Hospitals and Touro Hospital expressed a need for trained personnel in Invasive Cardiovascular procedures to work side-by-side with interventional cardiologists to assist with the diagnosis and treatment of cardiovascular disease. Hospital administrators from Touro Hospital and Ochsner Hospital approached Delgado's Dean of Allied Health and expressed their concern about the growing demand for skilled Invasive Cardiovascular Technicians, a need that was outpacing the availability of trained professionals. Hospital administrators requested that Delgado develop a comprehensive Invasive Cardiovascular Technician program. This program aims to address the increasing demand by providing specialized training to individuals interested in pursuing a career in this vital field of healthcare. This collaboration between hospital administrators and Delgado's School of Allied health underscores their commitment to bridging the gap between the rising demand for skilled Cardiovascular Technicians and the limited supply of trained professionals. The College is also working with the following partners to create an educational and career pipeline for this program: University of New Orleans, University of Holy Cross, and Nunez Community College. The proposed Post Associate Certificate (along with the proposal for the Associate Degree program) will further the mission of Delgado by offering a program that prepares graduates to fulfill a critical specialty need in the Greater New Orleans area and state-wide in Invasive Cardiovascular technology. Graduates of this program will become high-qualified, highly paid, respected members of the community who not only will be able to provide for themselves and their families but will also contribute greatly to the economy of the State of Louisiana and the health of its citizens. The Bureau of Labor Statistics projects nearly a 5% employment growth for cardiovascular technicians between 2021 and 2031. A similar trend in employment is expected to occur in Louisiana. Louisiana's population continues to require quality healthcare services, especially given the prevalence of cardiovascular diseases and related conditions. The demand for invasive cardiovascular procedures, diagnostics, and treatments is increasing, leading to higher demand for skilled technicians who can assist cardiologists with cardiac catheterization procedures. As the population ages, the incidence of cardiovascular diseases tends to rise. This creates a demand for healthcare professionals who can address the complex needs of older patients including those requiring invasive cardiovascular interventions. Expanding the healthcare workforce and training residents of Louisiana for high-demand jobs has a positive economic impact by creating good paying jobs that contribute to the overall growth of the economy of Louisiana. The education and training provided by the program promote a culture of continuous learning and professional development. Graduates would not only fill an immediate labor market gap but also become lifelong learners, adapting to evolving medical technologies and practices to maintain the highest standards of patient care. The development of a new training program for Invasive Cardiovascular Technicians in Louisiana is poised to be a pivotal solution to address the significant deficit of approximately 85 trained professionals each year. This training program would serve as a direct response to a growing demand for skilled healthcare workers in this field, effectively bridging the gap between the supply of trained technicians and the pressing needs of medical facilities. The development of this new training program not only addresses the existing deficit of trained professionals but also aligns with the broader mission of improving healthcare outcomes, supporting economic growth, and advancing education for the betterment of the public.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION: Main Campus

QUALIFIED FACULTY (Check all that apply)

<p>Use Existing Faculty: Yes</p> <p># - Full Time: 7</p> <p># - Part Time: 0</p>	<p>Hire Adjunct Faculty: No</p> <p># - 0</p>	<p>Hire Full-Time Faculty: Yes</p> <p># - 1</p>
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ADMINISTRATION and IMPLEMENTATION COSTS

Department :

How will this change affect the administrative structure and/or allocation of departmental funds in terms of:

Faculty :	Facilities :	Library Resources :
Support :	Related Fields :	Other :

MINIMUM CREDENTIALS REQUIRED FOR FACULTY

Education: A.A.S. in Invasive Cardiovascular Technology or Radiologic Technology

Experience:

Certification: Current Allied Health Certification or Licensure

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department : School of Health Sciences-Allied Health

Describe how this change will affect the administrative structure and/or allocation of departmental funds in terms of faculty, facilities, support, and any other resources.

The addition of the Post-Associate certificate program in Invasive Cardiovascular Technology will have no effect on the administrative structure of the School/College. Moreover, the College has adequate support resources to accommodate students in this new program and does not foresee any re-allocation of departmental funds. This program may require the addition of one full-time faculty member in the field.

ANTICIPATED ENROLLMENT:

Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	8	14	14	16	17
EVENING					
DISTANCE EDUCATION					

Describe Process for Attaining & Estimating Enrollment: This enrollment projection is based upon a review of enrollment in Allied Health courses, industry demand and job availability in the field, as well as the availability of College resources and clinical placement.

PROGRAM ACCREDITATION:

Is Program Accreditation, Licensure or Certification Required?	No Accreditation status: N/A
Type/Name of Program Accreditation, Licensure or Certification Required:	

DESCRIBE IMPLEMENTATION COSTS (Include Faculty, Facilities, Library Resources, etc.)

PROGRAM CURRICULUM

Use the template below or insert separate attachment. All modifications should include the OLD and NEW curriculum with changes appropriately noted so that it is visually clear what has been added, deleted and/or changed. Note if any special requirements, such as internships, are part of the curriculum. List all embedded IBCs. If you are adopting curriculum, you do not need to complete this section.

Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit Hours	Clinical Hours
Program, Degree or Concentration: Invasive Cardiovascular Technology, P.A.C. (see attachment)					Credit Hours: 30.00		

BENEFITS TO THE SYSTEM

Discuss how this change will benefit your students, your community, and the LCTCS.

This Post-Associate Certificate in Invasive Cardiovascular Technology will have a significant impact on our students, our community, and the LCTCS. It provides students with an excellent opportunity for a high-wage, high demand career in the healthcare industry. Regional growth in this specialized area is anticipated to be the largest in Orleans Parish, Jefferson Parish, and East Baton Rouge Parish. As the population ages, the incidence of cardiovascular disease tends to rise, and hospital administrators have expressed their concern about the growing demand for skilled Invasive Cardiovascular technicians. As evidenced by the attached letters from Ochsner and Touro hospitals, there is a great need in the region for this program to fill vacancies and to support healthcare practitioners in the area. This program directly addresses this need by providing graduates who can adapt to evolving medical technologies while also maintaining the highest standards of patient care. By providing workforce opportunities to graduates of the program and by fulfilling an urgent healthcare need in the community, this program benefits LCTCS by fulfilling the goal of equitable prosperity for students while also providing a much needed service to the community.

KEYWORDS

Associate of Applied Science Degree in Invasive Cardiovascular Technology

Pre-requisites

Math 120 or higher	Contemporary Math	3	(General Education)
Biology 251 and 253	Anatomy and Physiology I Lecture and Lab	4	(General Education)
Biology 252 and 254	Anatomy and Physiology II Lecture and Lab	4	
HESC 111	Medical Terminology	3	

Semester 1

English 101	English Composition	3	(General Education)
ICVT 100	Cardiovascular A & P	3	(NEW)
ICVT 101	Rhythm Analysis	3	(NEW)
ICVT 102	Patient Care & Assessment	3	(NEW)
ICVT 103	Principles of Radiation	1	(NEW)
ICVT 110	Aseptic Technique	1	(NEW)
ICVT 111	Aseptic Technique Lab	1	(NEW)

Semester 2

ICVT 120	Invasive Procedures I	4	(NEW)
ICVT 125	Invasive Procedures I Lab	4	(15 LAB HOURS)(NEW)
IVCT 130	Pharmacology & Medicine Administration	3	(NEW)

Semester 3

ICVT 220	Invasive Procedures II	4	(NEW)
ICVT 225	Invasive Clinical Rotation I	3	(27 LAB HOURS) (NEW)
Humanities Elective		3	(General Education)

Semester 4

ICVT 250	Invasive Procedures III	4	(NEW)
ICVT 255	Invasive Clinical Rotation II	3	(27 LAB HOURS)(NEW)
PSYC 127	General Psychology	3	(General Education)

TOTAL		60	
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Post-Associate Certificate in Invasive Cardiovascular Technology

Semester 1

ICVT 100	Cardiovascular A & P	3	(NEW)
ICVT 101	Rhythm Analysis	3	(NEW)
ICVT 102	Patient Care & Assessment	3	(NEW)
ICVT 130	Pharmacology & Medicine Administration	3	(NEW)

Semester 2

ICVT 120	Invasive Procedures I	4	(NEW)
ICVT 220	Invasive Procedures II	4	(NEW)
IVCT 225	Invasive Clinical Rotation I	3	(27 LAB HOURS) (NEW)

Semester 3

ICVT 250	Invasive Procedures III	4	(NEW)
ICVT 255	Invasive Clinical Rotation II	3	(27 LAB HOURS)(NEW)

TOTAL 30

Signature: *Wendi Palermo*

Email: wendipalermo@lctcs.edu

Signature: *William Tulak*

Email: williamtulak@lctcs.edu












Consent Agenda - Program Requests at DCC

Final Audit Report

2023-12-06

Created:	2023-12-05
By:	Ericka Poole (erickapoole@lctcs.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAgsdzbtzPremWSGhiWH3MX55-M5aPhb4q

"Consent Agenda - Program Requests at DCC" History

-  Document created by Ericka Poole (erickapoole@lctcs.edu)
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-  Document emailed to Wendi Palermo (wendipalermo@lctcs.edu) for signature
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