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## LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

**TO:** Dr. Monty Sullivan  
LCTCS President

**THROUGH:** Dr. Wendi Palermo <sup>WP</sup>  
Chief Education and Training Officer

**FROM:** William Tulak <sup>WT</sup>  
Director of Institutional Effectiveness

**DATE:** November 3, 2023

**SUBJECT:** Program Requests at Fletcher Technical 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 Cardiovascular Sonography (CIP 51.0901) - **4 STARS**
2. Certificate of Technical Studies (CTS) in Instrumentation Technician (CIP 15.0404) - **5 STARS**
3. Career and Technical Certificate (CTC) in Instrumentation Apprentice (CIP 15.0404) with an Industrial Based Certification in NCCER Instrumentation Level 1 - **5 STARS**

**Background:** Fletcher is requesting the addition of the Associate of Applied Science (AAS) in Cardiovascular Sonography. There are currently no institutions of higher education offering cardiovascular sonography in the state of Louisiana. Funds to assist the start-up of the program have been secured through the BOR Establishing Regional Healthcare Innovation Partnerships. Fletcher is also adding two exit points to an already existing TD in Electrical & Instrumentation. These exit points will allow students to earn three NCCER Instrumentation IBCs in the first and second semesters of the TD.

**Fiscal Impact:** The administrative structure and allocation of departmental funds will be unchanged, unless otherwise noted.

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

**Benefits to the System:** These requests will allow Fletcher to better meet student and workforce needs.



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

12/13/23

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**Date**

## Cardiovascular Sonography - 11/17/2023

**TYPE OF PROPOSED CHANGE :** New Program

**PROGRAM NAME :** Cardiovascular Sonography

### 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:** Cardiovascular Sonography

**Program Delivery Mode:** Standard

**CIP:** 51.0901

**Credit Hours:** 63.00

**Contact Hours:** 1575.00

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.**

This program has been requested by several community partners as the need for cardiovascular treatment services are increasing in our area. The purpose of this program is to provide healthcare facilities with trained Cardiovascular Sonographers specializing in obtaining, reviewing, and integrating information regarding echocardiograms and non-invasive vascular studies.

**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.**

This program is intended to provide a high-quality program to the community of South Louisiana and beyond. This program will prepare students for employment by providing a technology-driven curriculum and a supportive environment. Businesses in the community have been actively engaged in the formation of this program and have asked for this program to be brought to our area due to the high demand in this area. This program aligns with the institution's strategic plan and academic program portfolio because it will increase student access to desired programs and it will increase enrollment. This program will also increase and improve partnerships with healthcare facilities in the area as facilities will provide students with lab and clinical opportunities that will also provide career opportunities upon completion. Funding sources have been secured for the start-up of this program through the BOR Establishing Regional Healthcare Innovation Partnerships which supports the innovation of funding sources. Lastly, bringing this program to our area will enhance Fletcher's image as there are so many students in the area interested in this field and now it will be offered close to home for them. There are currently no institutions of higher education offering Cardiovascular Sonography in the state of Louisiana. According to the U.S. Bureau of Labor Statistics, the demand for Cardiovascular Technologists will rise by 10% (14,700 positions) by the year 2031. The Louisiana Workforce Commission reports there are currently 104 job listings in the state of Louisiana for Cardiovascular Technologists.

**SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:** Main Campus**QUALIFIED FACULTY (Check all that apply)**

<b>Use Existing Faculty:</b> No # - Full Time: 0 # - Part Time: 0	<b>Hire Adjunct Faculty:</b> No # - 0	<b>Hire Full-Time Faculty:</b> Yes # - 3
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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:**

<b>Faculty :</b>	<b>Facilities :</b>	<b>Library Resources :</b>
<b>Support :</b>	<b>Related Fields :</b>	<b>Other :</b>

**MINIMUM CREDENTIALS REQUIRED FOR FACULTY**

<b>Education:</b> Effective in teaching and knowledgeable in subject matter	<b>Experience:</b> Experience in the designated content area	<b>Certification:</b> Professional credential(s)/certification(s) (noninvasive vascular study and/or adult cardiac sonography)
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**FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS****Department :** Nursing & 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.**

Student tuition will be available to offset some costs, while the BOR's Establish Regional Healthcare Innovation Partnership funding of \$293,611 will assist with faculty costs, equipment needed to furnish the lab, and the initiation of the program. As far as facilities, this degree uses resources that have already been procured by the college, no additional space is needed.

**ANTICIPATED ENROLLMENT:**

Students	Year One	Year Two	Year Three	Year Four	Year Five
<b>DAY</b>	20	40	50	50	
<b>EVENING</b>					
<b>DISTANCE EDUCATION</b>					

**Describe Process for Attaining & Estimating Enrollment:**

Students in the area have been requesting a sonography program for many years. Marketing and recruitment of new and existing students will consist of website updates, email campaigns, and student advising outreach which will target students interested in healthcare focused careers. Adult learners will be targeted through add campaigns that focus on career changes and through marketing to the adult education division of the college. Additionally, underrepresented, and special populations of students will be targeted through advising. Advising outreach will be tailored to each of these student populations.

**PROGRAM ACCREDITATION:**

**Is Program Accreditation, Licensure or Certification Required?**

Mandatory

**Accreditation status:**

Will Apply

**Type/Name of Program Accreditation, Licensure or Certification Required:**

The Cardiovascular Sonography program will require accreditation through The Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon recommendation of the Joint Review Committee on Accreditation in Cardiovascular Technology.

**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
<b>Program, Degree or Concentration:</b> Associate of Applied Science Cardiovascular Sonography					<b>Credit Hours:</b> 63.00		
<b>Semester:</b> First Semester (Fall)					<b>Credit Hours:</b> 13.00		
BIOL	1140	Anatomy & Phys I (GER)	3.00	0.00	3.00	3.00	0.00
BIOL	1150	Anatomy & Phys I Lab	0.00	1.00	2.00	1.00	0.00
ENGL	1000/1010	English Composition I (GER)	3.00	0.00	3.00	3.00	0.00
MATH	1223	Trigonometry (GER)	3.00	0.00	3.00	3.00	0.00
HESC	1110	Medical Terminology	3.00	0.00	3.00	3.00	0.00
<b>Semester:</b> Second Semester (Spring)					<b>Credit Hours:</b> 13.00		
BIOL	1160	Anatomy & Phys II	3.00	0.00	3.00	3.00	0.00
BIOL	1170	Anatomy & Physiology II Lab	0.00	1.00	2.00	1.00	0.00
PHYS	2113	General Physics I	3.00	0.00	3.00	3.00	0.00
		Humanities elective (GER)	3.00	0.00	3.00	3.00	0.00
PSYCH	2010	Introduction to Psychology (GER)	3.00	0.00	3.00	3.00	0.00
<b>Semester:</b> Third Semester (Summer)					<b>Credit Hours:</b> 6.00		
CSON	1000	Sonographic Principles and Instrumentation	3.00	1.00	5.00	4.00	0.00
HESC	1210	Ethical and Legal Dimensions in Health Science	1.00	0.00	1.00	1.00	0.00
CSON	1001	Patient Care in the Clinical and Hospital Settings	1.00	0.00	1.00	1.00	0.00
<b>Semester:</b> Fourth Semester (Fall)					<b>Credit Hours:</b> 12.00		
CSON	1002	Vascular and Cardiac Anatomy	3.00	1.00	5.00	4.00	0.00
CSON	1010	Vascular and Echocardiography Skills Application Lab	0.00	2.00	4.00	2.00	0.00
CSON	1020	Vascular and Echocardiography Clinical Practicum I	0.00	0.00	18.00	6.00	6.00
<b>Semester:</b> Fifth Semester (Spring)					<b>Credit Hours:</b> 13.00		
CSON	2001	Advanced topics in Vascular and Cardiac Sonography	1.00	0.00	1.00	1.00	0.00
CSON	2003	Pathophysiology and Diseases of the Cardiac System	3.00	0.00	3.00	3.00	0.00

CSON	2010	Pathophysiology and Disease of the Vascular System	3.00	0.00	3.00	3.00	0.00
CSON	2020	Vascular and Echocardiography Clinical Practicum II	0.00	0.00	18.00	6.00	6.00
<b>Semester:</b> Sixth Semester (Summer)					<b>Credit Hours:</b> 6.00		
CSON	2030	Vascular and Echocardiography Clinical Practicum III	0.00	0.00	18.00	6.00	6.00

**BENEFITS TO THE SYSTEM**

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

This program will provide training as a Cardiovascular Sonographer to address the current and future needs in cardiovascular clinics and hospitals. There is an increase in vascular procedures being performed in our area that is accentuating the need for these specialized sonographers.

**KEYWORDS**

## Instrumentation Apprentice - 11/05/2023

<b>TYPE OF PROPOSED CHANGE :</b> New Program
<b>PROGRAM NAME :</b> Instrumentation Apprentice

<b>AWARD LEVEL(S)</b>	
<b>For Board of Regents and LCTCS Review:</b>  <b>Name:</b>	<b>For LCTCS Review:</b>  Technical Diploma (T.D.)  Certificate of Technical Studies (C.T.S.)  Career and Technical Certificate (C.T.C)  TCA - For Archive Purpose Only

<b>NAME OF PROGRAM(S) and AWARD LEVEL(S)</b>						
<b>Stars :</b> 5 Stars						
<b>Name:</b> Instrumentation Technician				<b>Program Delivery Mode:</b> Standard		
<b>CIP:</b> 15.0404		<b>Credit Hours:</b> 30.00		<b>Contact Hours:</b> 672.00		Certificate of Technical Studies (C.T.S.)
<b>IBC:</b> 15040402- NCCER Instrumentation Level 2	<b>Issuing Body:</b> NCCER	<b>Course Title:</b> Instrumentation Technician 2	<b>Course Prefix:</b> INST	<b>Course Number:</b> 1202	<b>Credits Awarded:</b> 21.00	<b>IBC Awarded upon Completion?</b> : Yes
<b>IBC:</b> 15040403- NCCER Instrumentation Level 3	<b>Issuing Body:</b> NCCER	<b>Course Title:</b> Electrical Wiring and Controllers	<b>Course Prefix:</b> INST	<b>Course Number:</b> 1302	<b>Credits Awarded:</b> 30.00	<b>IBC Awarded upon Completion?</b> : Yes
<b>Stars :</b> 5 Stars						
<b>Name:</b> Instrumentation Apprentice				<b>Program Delivery Mode:</b> Standard		
<b>CIP:</b> 15.0404		<b>Credit Hours:</b> 12.00		<b>Contact Hours:</b> 256.00		Career and Technical Certificate (C.T.C)
<b>IBC:</b> 15040401- NCCER Instrumentation Level 1	<b>Issuing Body:</b> NCCER	<b>Course Title:</b>	<b>Course Prefix:</b> INST	<b>Course Number:</b> 1102	<b>Credits Awarded:</b> 9.00	<b>IBC Awarded upon Completion?</b> : Yes



**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.

The college is adding two credentials as exit points to an already existing TD. These exit points will allow students to earn three NCCER Instrumentation IBCs in the first and second semesters of the TD.

**IMPLEMENTATION DATE  
(Semester and Year)**

Spring 2024

Courses already exist. Repackaging into a CTC with an IBC.

**HISTORY OF PRIOR ACTIONS**

Provide an overview of changes to this program.

**JUSTIFICATION FOR THE PROPOSED CHANGE**

Include support such as four-year university agreements, industry demand, advisory board information, etc.

Per advisory board request, the college will be following the NCCER instrumentation curriculum for Levels 1-4. This demand is listed as a five star rating.

**SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:****QUALIFIED FACULTY (Check all that apply)**

Use Existing Faculty: No

# - Full Time: 0

# - Part Time: 0

Hire Adjunct Faculty: No

# - 0

Hire Full-Time Faculty: No

# - 1

**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:** At or above a TD in the field or 10 years of documentable experience at or above the highest level of skill being taught.

**Experience:** At or above a TD in the field or 10 years of documentable experience at or above the highest level of skill being taught.

**Certification:** NCCER

**FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS**

**Department :** Energy & Advanced Technologies

**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.**

One faculty will be hired to support the TD and two exit points to include a CTS and a CTC.

**ANTICIPATED ENROLLMENT:**

Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	15	20	20	20	20
EVENING					
DISTANCE EDUCATION					
<b>Describe Process for Attaining &amp; Estimating Enrollment:</b>	College is expecting to start the program in the spring with 15 students due to capacity per instructor-student ratio for safety. As the program grows, the college is anticipating a cohort capacity of 20 students. As need persists, the college will explore expanding to evening classes.				

**PROGRAM ACCREDITATION:**

<b>Is Program Accreditation, Licensure or Certification Required?</b>	Mandatory
	<b>Accreditation status:</b> Approved
<b>Type/Name of Program Accreditation, Licensure or Certification Required:</b>	

**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
<b>Program, Degree or Concentration:</b> Instrumentation Apprentice					<b>Credit Hours:</b> 12.00		
INST	1100	Core: Introduction to Basic Construction Skills	2.00	1.00	4.00	3.00	0.00
INST	1101	Instrumentation Fundamentals (Level 1: Modules 1-4)	2.00	1.00	4.00	3.00	0.00
INST	1102	Instrumentation Apprentice 1 (Level 1: Modules 5-8)	2.00	1.00	4.00	3.00	0.00
INST	1103	Instrumentation Apprentice 2 (Level 1: Modules 9-12)	2.00	1.00	4.00	3.00	0.00
<b>Program, Degree or Concentration:</b> Instrumentation Technician					<b>Credit Hours:</b> 0.00		
INST	1100	Core: Introduction to Basic Construction Skills	2.00	1.00	4.00	3.00	0.00
INST	1101	Instrumentation Fundamentals (Level 1: Modules 1-4)	2.00	1.00	4.00	3.00	0.00
INST	1102	Instrumentation Apprentice 1 (Level 1: Modules 5-8)	2.00	1.00	4.00	3.00	0.00
INST	1103	Instrumentation Apprentice 2 (Level 1: Modules 9-12)	2.00	1.00	4.00	3.00	0.00
INST	1201	Instrumentation Technician 1 (Level 2: Modules 1-6)	3.00	2.00	7.00	5.00	0.00
INST	1202	Instrumentation Technician 2 (Level 2: Modules 7-11)	2.00	2.00	6.00	4.00	0.00
INST	1301	Control and Detection Devices (Level 3: Modules 1-5)	3.00	2.00	7.00	5.00	0.00
INST	1302	Electrical Wiring and Controllers (Level 3: Modules 6-9)	2.00	2.00	6.00	4.00	0.00

### BENEFITS TO THE SYSTEM

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

By adding additional IBCs to the already existing curriculum, students will become more employable upon completion.

### KEYWORDS

**Signature:** *Wendi Palermo*

**Email:** wendipalermo@lctcs.edu

**Signature:** *William Tulak*

**Email:** williamtulak@lctcs.edu












# Consent Agenda - Program Requests at FTCC

Final Audit Report

2023-12-06

Created:	2023-12-05
By:	Ericka Poole (erickapoole@lctcs.edu)
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