

LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

Changing Lives,
Creating Futures

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Community
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College System

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APPROVED

Slk 6/13/18

LCTCS BOARD OF SUPERVISORS

TO: Dr. Monty Sullivan
LCTCS President
THROUGH: Dr. René Cintrón
Chief Academic Affairs Officer
FROM: Dr. Adrienne Fontenot
Director of Adult Learning and Educational Programs
SUBJECT: Program Revisions at Nunez Community College (NCC)
DATE: 4/23/18

FOR BOARD ACTION:

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

Program Additions

- 1. Associate of Applied Science (AAS) in Aerospace Technology (CIP 150801) – 4 STARS
a. Technical Diploma (TD) in Aerospace Technology (CIP150801) – 4 STARS
i. Certificate of Technical Studies (CTS) in Process Aerospace Technology (CIP 150801) – 4 STARS

Background: Nunez Community College is requesting to add the Aerospace Technology program. Currently, there are no programs in Louisiana to train aerospace technicians. The development of the Aerospace Technology program is supported by the aerospace industry in the greater New Orleans Region and Louisiana Economic Development to meet current and anticipated needs for technicians. This opportunity for a new program will lead to a self-sustaining one supported through enrollment and continued partnership with industry.

Fiscal Impact: The aerospace program will be supported through currently awarded grant funds to secure initial costs of supplies and equipment. These funds will also support costs of faculty through the first three years.

History of Prior Actions: N/A

Benefits to the System: The aerospace program will provide an opportunity for students in the community to train for high skilled, high wage jobs. Students who obtain these jobs will continue to participate in the community and contribute to its growth.

Approved for Recommendation to the Board
Dr. Monty Sullivan

6-13-18
Date



## LOUISIANA'S COMMUNITY & TECHNICAL COLLEGE SYSTEM

### Requests for Programs: New, Modification, and Adoption

<b>TYPE OF PROPOSED CHANGE</b>		
<input checked="" type="checkbox"/> <b>New Program</b>	<input type="checkbox"/> <b>Curriculum Modification</b>	<input type="checkbox"/> <b>Curriculum Adoption</b>
Program Name: <b>Aerospace Technology</b>		

<b>AWARD LEVEL(S)</b>	
<p>For Board of Regents and LCTCS Review:</p> <p><input checked="" type="checkbox"/> <b>Associate of Applied Science (A.A.S.)</b></p> <p><input type="checkbox"/> <b>Associate of Science (A.S.)</b></p> <p><input type="checkbox"/> <b>Associate of Arts (A.A.)</b></p> <p><input type="checkbox"/> <b>Other Associate Degree</b></p> <p><b>Name:</b> _____</p> <p><input type="checkbox"/> <b>Certificate of Applied Science (C.A.S.)</b></p> <p><input type="checkbox"/> <b>Certificate of General Studies (C.G.S.)</b></p>	<p>For LCTCS Review</p> <p><input checked="" type="checkbox"/> <b>Technical Diploma (T.D.)</b></p> <p><input type="checkbox"/> <b>Career and Technical Certificate (C.T.C.)</b></p> <p><input checked="" type="checkbox"/> <b>Certificate of Technical Studies (C.T.S.)</b></p>

CIP: 150801	Credit Hours: <b>61</b>	Contact Hours:	Award Level: <b>Associate of Applied Science</b>
Name:			
CIP: 150801	Credit Hours: <b>46</b>	Contact Hours:	Award Level: <b>Technical Diploma</b>
Name:			
CIP: 150801	Credit Hours: <b>24</b>	Contact Hours:	Award Level: <b>Certificate of Technical Studies</b>
Name:			
CIP:	Credit Hours:	Contact Hours:	Award Level:

IBC	Issuing Body	Course Title	Course Prefix	Course Number	Credits Awarded
OSHA 10	Occupational Safety and Health Administration	Industrial and Plant Safety	INDT	1030	3

**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 will provide training that will prepare students to enter the Aerospace industry as a technician in manufacturing.

**IMPLEMENTATION DATE (Semester and Year)**

Fall 2018

**HISTORY OF PRIOR ACTIONS**

**Provide an overview of changes to this program.**

A program to train aerospace technicians does not exist in Louisiana. The development of this program is supported by the aerospace industry in the greater New Orleans Region and Louisiana Economic Development to meet current and anticipated needs for technicians.

**JUSTIFICATION FOR THE PROPOSED CHANGE**

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

Although Aerospace Technician is not rated by the Louisiana Workforce Commission, closely related professions for avionics technician, and general manufacturing engineering are rated 4 stars. Regionally, Aerospace Technician is a field with a current need for trained employees and anticipated growth potential in the region as opportunities for aerospace manufacturing continue to grow. Currently positions are listed for aerospace technicians for both Boeing and Lockheed Martin at New Orleans locations. These companies anticipate additional needs and have communicated difficulty in finding local employees with the necessary skills.

This program was developed with direct input from industry. A job task analysis was conducted with industry representatives and an experienced facilitator. The results of that process were mapped directly to program content and courses, so that students and industry are assured that this program directly addresses the skills necessary for successful performance as an entry level aerospace technician.

LOUISIANA WORKFORCE COMMISSION STAR LEVEL ( <a href="http://www.laworks.net/Stars/">http://www.laworks.net/Stars/</a> )				
<input type="checkbox"/> 5 Stars	<input checked="" type="checkbox"/> 4 Stars	<input type="checkbox"/> 3 Stars	<input type="checkbox"/> 2 Stars	<input type="checkbox"/> 1 Star

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION			
<input checked="" type="checkbox"/> Main Campus	<input type="checkbox"/> All Campuses	<input type="checkbox"/> Sites (list below)	<input type="checkbox"/> Distance Education
Site 1:			
Site 2:			
Site 3:			
Site 4:			

QUALIFIED FACULTY (Check all that apply)		
<input checked="" type="checkbox"/> Use Existing Faculty #: <u>2</u>	<input checked="" type="checkbox"/> Hire Adjunct Faculty #: <u>2</u>	<input checked="" type="checkbox"/> Hire Full-Time Faculty #: <u>1</u>

MINIMUM CREDENTIALS REQUIRED FOR FACULTY		
Education: Baccalaureate/ Associate degree with specialized training	Experience: 3 years in industry	Certification: n/a

<b>FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS</b>
Department: Technology Programs
<b>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.</b>

This program will be supported through currently awarded grant funds to secure initial costs of supplies and equipment. These funds will also support costs of faculty through the first three years of the program. This opportunity for a supported start up and growth of the program will lead to a self-sustaining program supported through enrollment and continued partnership with industry.

This program will be in the Technical Department at Nunez Community College. This department houses the Industrial Technology program, Welding, Heating Ventilation and Air Conditioning programs. The structure of the department will not change with the addition of this program and a full time faculty member.

Nunez Community College has sufficient classroom space for lecture classes. In addition, a new technology building to replace one lost in hurricane Katrina is expected to be complete and ready for student use in May 2018. Space has been identified in this building to house needed lab space to begin this proposed program. Additionally, a second wing to the technology building that will house skilled craft shops will be complete and ready for student use January 2019. This will provide additional lab space as additional aerospace courses are added as student progress through the program.

**ANTICIPATED ENROLLMENT:**

Students	Year One	Year Two	Year Three	Year Four	Year Five
<u>DAY</u>	<u>15</u>	<u>30</u>	<u>30</u>	<u>45</u>	<u>60</u>
<u>EVENING</u>	<u>15</u>	<u>30</u>	<u>30</u>	<u>45</u>	<u>60</u>
<u>DISTANCE EDUCATION</u>					
Describe Process for Attaining & Estimating Enrollment:	Nunez Community College will follow the model of Eastern Florida State and start a cohort of 15 students in Fall in daytime courses and a cohort of evening students each Spring semester with the goal of running 4 cohorts running simultaneously. Additional courses or cohorts will be added based on student need.				

**PROGRAM ACCREDITATION:**

Is Program Accreditation, Licensure or Certification Required?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	If YES, please provide projected accreditation/licensure/certification date:	
Type/Name of Program Accreditation, Licensure or Certification Required:		

**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
<b>First Semester</b>						
INDT	1030	Industrial and Plant Safety	3			3
ARST	1000	Introduction to Aerospace	1			1
ARST	1040	Introduction to Electrical/ Electronic Assembly	1	9		4
ARST	1780	Introduction to Mechanical Assembly	2	9		5
ARST	1210	Print Reading	3			3
<b>Second Semester</b>						
INDT	2070	Quality Control	3			3
ARST	2700	Aerospace Mechanical Assembly	1	9		4
ARST	1760	Advanced Electrical/ Electronic Assembly	1	12		5
MATH	1200 or higher	College Level Math Elective	3			3
ARST	1050	Fluid Systems	1	3		2
<b>Third Semester</b>						
ARST	2760	Adhesive Bonding	1	12		5
ARST	2790	Fabrication for Aerospace Manufacturing	1	6		3

ARST	1500	Hoist Cranes and Equipment		3		1
ENGL	1010	English Composition	3			3
Natural Science		Elective from PHSC 1000, PHSC 1200, PHYS 1100, CHEM 1100				3
Fourth Semester						
ARST	2510	Welding for Aerospace Manufacturing	1	12		5
ARST	2800	Surface Preparation and Coatings	1	3		2
ARST	2780	Composite Materials	1			1
Humanities		Elective	3			3
Social Science		Elective	3			3
		Note that a spreadsheet with a semester breakout for the Technical Diploma and CTS has been provided				

**BENEFITS TO THE SYSTEM**


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

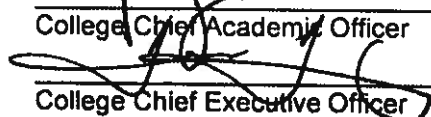
This program will provide an opportunity for students in the community to train for high skilled, high wage jobs. The program will assist industry by providing high skilled workers, and this partnership will ensure that both the community and industry will continue to grow together. Students who obtain these jobs will continue to participate in the community and contribute to its growth. Students, through this training, have the opportunity to participate in an exciting industry and be part of meaningful work that currently includes local projects that are connected to deep space exploration.

Aerospace technicians are needed in the region with current openings listed for Boeing and Lockheed Martin for New Orleans sites. Industry has communicated difficulty in finding local employees with the necessary skills. A continued need for skilled technicians is anticipated with expected growth in aerospace manufacturing. On approval, this program will be the only program in Louisiana to specifically prepare aerospace technicians.

This proposed program was developed in collaboration with Space TEC, a national organization who supports aerospace education at institutions of higher education across the United States. Nunez is an educational partner of Space TEC and our program will benefit from ongoing cooperation with partners in aerospace education. Students at Nunez will benefit from a dynamic program connected to best practices at the national level in the field. They will also benefit from a program developed through a thorough job task analysis which ensures that completers of the program will have the skills and knowledge expected for entry level technicians. This JTA and DACUM are included as an attachment to this program proposal. As you can see on page 42, representatives from industry, Nunez Community College and Space TEC collaborated to prepare the program's relevant curriculum. A review of the course content also ensures that students develop many skills that are applicable outside of the aerospace industry maximizing the opportunity for students to use their education to gain meaningful employment in related industry.

## SIGNATURES:

  
 \_\_\_\_\_  
 College Chief Academic Officer

  
 \_\_\_\_\_  
 College Chief Executive Officer

4/12/18  
 \_\_\_\_\_  
 Date

4/12/18  
 \_\_\_\_\_  
 Date





The Boeing Company  
499 Boeing Blvd.  
P.O. Box 240002  
Huntsville, AL 35813-6402

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April 9, 2018

Dr. Tina Tinney  
Chancellor  
Nunez Community College  
3710 Paris Road  
Chalmette, LA 70043

RE: Statement of Support

Dear Chancellor Tinney,

The Boeing Company would like to express our support for implementation of the Advanced Manufacturing Training program currently under consideration by Nunez Community College. Implementation of this program will help develop a local workforce with the necessary skills and training that are needed to support the local manufacturing industry and operations at companies like Boeing at the Michoud Assembly Facility, for example.

We appreciate having the opportunity to provide input into the development of the program and identification of manufacturing skills currently required. When implemented, it is our anticipation this program will achieve development of a skilled workforce that can help meet employment needs in the area.

Sincerely,

A handwritten signature in blue ink that reads "Kenneth J. Tucker". The signature is written in a cursive, flowing style.

Kenneth J. Tucker  
Director  
Government Operations  
(256) 937-5532

cc: Rick Navarro  
Kenellias Smith