



*Changing Lives,  
Creating Futures*

Monty Sullivan  
System President

Officers:  
Stephen Toups  
Chair

Paul Price, Jr.  
First Vice Chair

Willie L. Mount  
Second Vice Chair

Members:  
Tari T. Bradford  
Helen Bridges Carter  
Timothy W. Hardy  
Alterman L. "Chip"  
Jackson  
Erika McConduit  
Michael J. Murphy  
Joe Potts  
Stanton W. Salathe  
Stephen C. Smith  
Mark D. Spears, Jr.  
Craig Spohn  
Vincent St. Blanc, III

Student Members:  
Samantha Rushlow  
Shanco "Shawn" Williams

Louisiana  
Community  
& Technical  
College System

265 South Foster Drive  
Baton Rouge, LA 70806

Phone: 225-922-2800  
Fax: 225-922-1185

[www.lctcs.edu](http://www.lctcs.edu)

## LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

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

**THROUGH:** Dr. René Cintrón  
Chief Education and Training Officer

**FROM:** Dr. Adrienne Fontenot  
Director of Adult Learning and Educational Programs

**DATE:** September 23, 2019

**SUBJECT:** Program Requests at Fletcher Technical Community College

**APPROVED**  
Slk 10/9/19  
LCTCS BOARD OF SUPERVISORS

### FOR BOARD ACTION:

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

#### Program Additions

1. Associate of Science (AS), Geology (CIP 40.0601) – **4 STARS**

#### Program Modifications

2. Associate of Applied Science (AAS), Medical Laboratory Technician (CIP 51.1004) – **4 STARS**

**Background:** Fletcher Technical Community College is requesting to add an Associate of Science (AS) in Geology for students who are interested in either pursuing a baccalaureate degree in that area or for those who want to obtain an entry level technician position. An AS in Geology provides students with fundamental principles, practices, and field techniques in preparation for careers in research, government, and academia where there is a growing demand for geoscience integration. This program is designed for students who aim for employment in local coastal restoration efforts, the local petroleum industry, or working as a geology technician for both the private and government sectors. Currently, there is a high demand for students with a field experience skill set in coastal restoration efforts.

Fletcher Technical Community College is requesting to modify the Associate of Applied Science (AAS) in Medical Laboratory Technician from 60 to 64 credits and 1470 to 1545 contact hours. The addition of BIOL 1160/1170 is equivalent to Biology courses for the Nursing, Surgical Technician, and Cardiopulmonary programs giving students the option to apply for multiple programs at one time maximizing their ability to get into a program and earn meaningful employment in a well-paying career.



***Changing Lives,  
Creating Futures***

Monty Sullivan  
*System President*

**Officers:**

Stephen Toups  
*Chair*

Paul Price, Jr.  
*First Vice Chair*

Willie L. Mount  
*Second Vice Chair*

**Members:**

Tari T. Bradford  
Helen Bridges Carter  
Timothy W. Hardy  
Altermann L. "Chip"  
Jackson  
Erika McConduit  
Michael J. Murphy  
Joe Potts  
Stanton W. Salathe  
Stephen C. Smith  
Mark D. Spears, Jr.  
Craig Spohn  
Vincent St. Blanc, III

**Student Members:**

Samantha Rushlow  
Shanco "Shawn" Williams

Louisiana  
Community  
& Technical  
College System

265 South Foster Drive  
Baton Rouge, LA 70806

Phone: 225-922-2800  
Fax: 225-922-1185

[www.lctcs.edu](http://www.lctcs.edu)

**Fiscal Impact:** There will be no change to the current administrative structure.

**History of Prior Actions:** There is a history of modifying curriculum to meet student and industry needs.

**Benefits to the System:** The changes will ensure curriculum is aligned to industry needs and better able to prepare students for successful entry into the workforce.

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

10-09-19

**Date**



# LOUISIANA'S COMMUNITY & TECHNICAL COLLEGE SYSTEM

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

<b>TYPE OF PROPOSED CHANGE</b>		
<input type="checkbox"/> New Program	<input checked="" type="checkbox"/> Curriculum Modification	<input type="checkbox"/> Curriculum Adoption
Program Name: Practical Nursing: Nurse Assistant		

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

CIP: 51.1004	New Credit Hours: 64	New Contact Hours: 1545	Award Level: AAS
Name: Medical Laboratory Technician			

IBC	Issuing Body	Course Title	Course Prefix	Course Number	Credits Awarded
ASCP for MLT	LSBME	Chemistry and Immunohematology	MLTS	1040 and 1050	64 (new)

<b>PROPOSED CHANGE</b> 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.
Previous credits 60. New credits 64. Previous clock 1470. New clock 1575 (Addition of 4 credits; 75 hours)

<b>IMPLEMENTATION DATE (Semester and Year)</b>	Summer 2020 admit class. Advertise ASAP
--	--

<b>HISTORY OF PRIOR ACTIONS</b> Provide an overview of changes to this program.
Program Approved by BoR: May 23, 2018

<b>JUSTIFICATION FOR THE PROPOSED CHANGE</b> Include support such as four-year university agreements, industry demand, advisory board information, etc.
<p>Addition of BIOL 1160/1170 will equal the BIOL courses for ASN, Surgical Tech, and Cardiopulmonary giving students the option to enroll/apply for multiple programs at one time maximizing their ability to get into a program and earn meaningful employment in a well-paying career.</p> <p>Current Summer load = 12 hours advertised; New summer load = 6 credits.</p> <p>Currently we would need a nontransferable HBIO course; this uses transferable BIOL courses.</p>
<b>LOUISIANA WORKFORCE COMMISSION STAR LEVEL</b> ( <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

<b>SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION</b>			
<input checked="" type="checkbox"/> Main Campus	<input type="checkbox"/> All Campuses	<input checked="" type="checkbox"/> Sites (list below)	<input type="checkbox"/> Distance Education
Site 1: Schriever			
<b>QUALIFIED FACULTY</b> (Check all that apply)			
<input checked="" type="checkbox"/> Use Existing Faculty #: 1	<input type="checkbox"/> Hire Adjunct Faculty #:	<input type="checkbox"/> Hire Full-Time Faculty #: _____	
<b>MINIMUM CREDENTIALS REQUIRED FOR FACULTY</b>			
Education: BS degree	Experience: 5 years	Certification: ASCP	

<b>FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS</b>
---

Department: Nursing and Allied Health- MLT

**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.**

No change to current administrative structure

**ANTICIPATED ENROLLMENT:**

Students	Year One	Year Two	Year Three	Year Four	Year Five
<u>DAY</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>20</u>	<u>20</u>
<u>EVENING</u>					
<u>DISTANCE EDUCATION</u>					
Describe Process for Attaining & Estimating Enrollment:	Industry demands				

**PROGRAM ACCREDITATION: LSBPNE, ACEN**

Is Program Accreditation, Licensure or Certification Required?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	If YES, please provide projected accreditation/licensure/certification date: <b>Projected Spring 2020</b> -Awaiting Approval for Preliminary Report	
Type/Name of Program Accreditation, Licensure or Certification Required:	NAACLS: Preliminary Report to be submitted October 2019	

<b>PROGRAM CURRICULUM</b> 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. <b>If you are adopting curriculum, you do not need to complete this section.</b>							
Subject Code	Course Number	Course Title	Lecture Hours	Lab Hours	Clinical Hours	Contact Hours	Credit Hours
<b>Program, Degree or Concentration:</b> Medical Laboratory Technician, AAS					<b>Credit Hours:</b> 64.00		
<b>Semester:</b> Semester 1 (Fall)					<b>Credit Hours:</b> 13.00		
MATH	1000	College Algebra (GER)	3.00	0.00	0.00	45.00	3.00
ENGL	1010	English Composition I (GER)	3.00	0.00	0.00	45.00	3.00
BIOL	1140	Anatomy & Physiology I (GER)	3.00	0.00	0.00	45.00	3.00
BIOL	1150	Anatomy & Physiology I Lab (GER)	0.00	1.00	0.00	45.00	1.00
CHEM	1010	Fundamentals of Chemistry (GER)	3.00	0.00	0.00	45.00	3.00
<b>Semester:</b> Semester 2 (Spring)					<b>Credit Hours:</b> 13.00		
BIOL	2030	Microbiology (GER)	3.00	0.00	0.00	45.00	3.00
	XXXX	Approved Humanities	3.00	0.00	0.00	45.00	3.00
PSYC	2010	Introduction to Psychology (GER)	3.00	0.00	0.00	45.00	3.00
BIOL	1160	Anatomy & Physiology II (GER)	3.00	0.00	0.00	45.00	3.00
BIOL	1170	Anatomy & Physiology II Lab (GER)	0.00	1.00	0.00	45.00	1.00
<b>Semester:</b> Semester 3 (Summer)					<b>Credit Hours:</b> 6.00		
MLTS	1010	Laboratory Procedures (Management)	3	1	2	165	6
<b>Semester:</b> Semester 4 (Fall)					<b>Credit Hours:</b> 16.00		
MLTS	1020	Hematology/Coagulation/Immunology	4	0	4	240	8
MLTS	1030	Microbiology/Parasitology	4	0	4	240	8
<b>Semester:</b> Semester 5 (Spring)					<b>Credit Hours:</b> 16.00		

<b>MLTS</b>	<b>1040</b>	Chemistry/Urinalysis/Body Fluids	<b>4</b>	<b>0</b>	<b>4</b>	<b>240</b>	<b>8</b>
<b>MLTS</b>	<b>1050</b>	Immunohematology/Blood Bank	<b>4</b>	<b>0</b>	<b>4</b>	<b>240</b>	<b>8</b>

**BENEFITS TO THE SYSTEM**

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

Addition of prereqs will equal prereqs for ASN, Surgical Tech, and Cardiopulmonary giving students the option to enroll/apply for multiple programs at one time maximizing their ability to get into a program and earn meaningful employment in a well-paying career.

Current Summer load = 12 hours advertised; New summer load = 6 credits.

Currently we would need a nontransferable HBIO course; this uses transferable BIOL courses.

**SIGNATURES:**

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

\_\_\_\_\_  
Date

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

\_\_\_\_\_  
Date

Course Number	Course Title	Lecture		Lab		Clinical		Total Cr. Hrs.	Total Clock
		Credit	Clock	Credit	Clock	Credit	Clock		
<b>Fall</b>	Freshman Year								
ENGL 1000/1010	English Composition I	3	45	0	0	0	0	3	45
BIOL 1140	Anatomy & Physiology I	3	45	0	0	0	0	3	45
BIOL1150	Anatomy & Physiology I Lab	0	0	1	45	0	0	1	45
MATH 1160, 1170 1000, or 1100	Contemporary Math or College Algebra	3	45	0	0	0	0	3	45
Chem 1010	Fundamentals of Chemistry	3	45	0	0	0	0	3	45
<b>Spring</b>								<b>13</b>	<b>225</b>
BIOL 1160	Anatomy & Physiology II	3	45	0	0	0	0	3	45
BIOL 1170	Anatomy & Physiology II Lab	0	0	1	45	0	0	1	45
BIOL 2030	Microbiology	3	45	0	0	0	0	3	45
	Humanities Elective	3	45	0	0	0	0	3	45
PSYC 2010	Intro to Psyc	3	45	0	0	0	0	3	45
<b>Summer</b>								<b>13</b>	<b>225</b>
MLTS 1010	Lab Procedures	3	45	1	30	2	90	6	165
<b>Fall</b>								<b>6</b>	<b>165</b>
MLTS 1020	Hematology/Coagulations	4	60	0	0	4	180	8	240
MLTS 1030	Microbiology/Parasitology	4	60	0	0	4	180	8	240
<b>Spring</b>								<b>16</b>	<b>480</b>
MLTS 1040	Chemistry/Urinalysis	4	60	0	0	4	180	8	240
MLTS 1050	Immunohematology	4	60	0	0	4	180	8	240
								<b>16</b>	<b>480</b>
<b>Total</b>								<b>64</b>	<b>1575</b>



## Associate of Science-Geology - 09/06/2019

**TYPE OF PROPOSED CHANGE :** New Program

**PROGRAM NAME :** Associate of Science-Geology

### AWARD LEVEL(S)

**For Board of Regents and LCTCS Review:**

Associate of Science (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:** Associate of Science-Geology

**Program Delivery Mode:**

**CIP:** 40.0601

**Credit Hours:** 64.00

**Contact Hours:** 1035.00

Associate of Science (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 is intended for students either interested in pursuing a baccalaureate degree in geology or who want to obtain an entry level technician position. An Associates of Science in Geology degree is a great starting point for students to learn basic fundamental principles, practices, and field techniques in preparation for careers in research, government, and academia where there is a growing demand for geoscience integration.

**IMPLEMENTATION DATE  
(Semester and Year)**

Fall 2020

### HISTORY OF PRIOR ACTIONS

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

None

### JUSTIFICATION FOR THE PROPOSED CHANGE

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

An Associates of Science in Geology is both designed for students who plant to transfer to a four-year college and will also help place students in entry level field and technical job positions. This program is designed for students who aim for employment in local coastal restoration efforts, the local petroleum industry, or working as a geology technician for both the private and government sectors. Currently, there is a high demand for students with a field experience skill set in coastal restoration efforts. This program will allow students to build strong foundation in math, science, and an introduction to geology.

**Program Learning Outcomes:**

1. Interpret the rocky cycle as it relates to mineral and rock formation and identification.
2. Synthesize basic geologic principles with Plate Tectonic theory.
3. Interpret how plate movement has affected the evolution of structural and biological aspects of the plant.
4. Apply appropriate techniques for accurate collection of geologic data to be utilized to solve geologic inquiries.
5. Illustrate effective communication skills through scientific writing, scientific presentations, and visual representations of ideas.
6. Synthesized and evaluate data collected through field methods and through research.
7. Evaluate evolving environmental issues and how that relates to geologic impacts.

**SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:** Main Campus, Distance Education

**QUALIFIED FACULTY (Check all that apply)**

<b>Use Existing Faculty: Yes</b>	<b>Hire Adjunct Faculty: Yes</b>	<b>Hire Full-Time Faculty: No</b>
# - Full Time: 1	# - 3	# - 0
# - Part Time: 0		

**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> Master's Degree or 18 hours of graduate credit in Geology, Environmental Science, or related field	<b>Experience:</b>	<b>Certification:</b>
--	--------------------	-----------------------

**FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS**

**Department :** Academic Affairs: STEM

**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.**

No change to current administrative structure. The faculty report to Dean of STEM, who was hired in Spring 2019 to oversee the geoscience programs.

#### ANTICIPATED ENROLLMENT:

Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	15	15	15	15	15
EVENING					
DISTANCE EDUCATION					
Describe Process for Attaining & Estimating Enrollment:	Inquiries and industry demand for geology that feeds into coastal studies, geosciences, and environmental sciences to fulfill workforce demands.				

#### PROGRAM ACCREDITATION:

Is Program Accreditation, Licensure or Certification Required?	Mandatory
	Accreditation status: Approved
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: A.S Geology					Credit Hours: 64.00		
Semester: Semester I					Credit Hours: 17.00		
ENGL	1010	English Composition I	3.00	0.00	45.00	3.00	0.00
MATH	1100	College Algebra	3.00	0.00	45.00	3.00	0.00

GEOL	1010	Physical Geology	3.00	0.00	45.00	3.00	0.00
GEOL	1011	Physical Geology Lab	0.00	1.00	30.00	1.00	0.00
BIOL	1030	General Biology I	3.00	0.00	45.00	3.00	0.00
BIOL	1031	General Biology I Lab	0.00	1.00	30.00	1.00	0.00
		Approved Fine Arts	3.00	0.00	45.00	3.00	0.00
<b>Semester: Semester II</b>					<b>Credit Hours: 16.00</b>		
ENGL	1020	English Composition II	3.00	0.00	45.00	3.00	0.00
MATH	1110	Trigonometry	3.00	0.00	45.00	3.00	0.00
GEOL	1020	Historical Geology	3.00	0.00	45.00	3.00	0.00
GEOL	1021	Historical Geology Lab	0.00	1.00	30.00	1.00	0.00
		Approved Natural Science	3.00	0.00	45.00	3.00	0.00
		Approved Humanities	3.00	0.00	45.00	3.00	0.00
<b>Semester: Semester III</b>					<b>Credit Hours: 16.00</b>		
CHEM	1030	Chemistry I	3.00	0.00	45.00	3.00	0.00
CHEM	1031	Chemistry I Lab	0.00	1.00	30.00	1.00	0.00
GEOL	XXXX	Geology Elective	3.00	0.00	45.00	3.00	0.00
GEOL	XXXX	Geology Elective	3.00	0.00	45.00	3.00	0.00
		Approved Social Science	3.00	0.00	45.00	3.00	0.00
		Approved Natural Science	3.00	0.00	45.00	3.00	0.00
<b>Semester: Semester IV</b>					<b>Credit Hours: 15.00</b>		
PHYS	1030	Physics I	3.00	0.00	45.00	3.00	0.00
PHYS	1031	Physics I Lab	0.00	1.00	30.00	1.00	0.00
GEOL	XXXX	Geology Elective	3.00	0.00	45.00	3.00	0.00
GEOL	XXX	Geology Elective	3.00	0.00	45.00	3.00	0.00
MATH	2135	Calculus I	5.00	0.00	75.00	5.00	0.00

## BENEFITS TO THE SYSTEM

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

This program is intended for students either interested in pursuing a baccalaureate degree in geology or who want to obtain an entry-level technician position. An Associate of Science degree is a great starting point for students to learn basic fundamental principles, practices and field techniques in preparation for careers in research, government, and academia where there is a growing demand for geoscience integration. This program is for students who aim for employment in local coastal restoration efforts, the local petroleum industry, or working as a geology technician for both the private and government sectors. This program will allow students to build a strong foundation in math, science, and introduction to geology.

An Associates of Science in Geology is designed for students who plan to transfer to a four-year college. An Associate of Science in Geology degree will help place students in entry level field and technical job positions.

## **KEYWORDS**