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LOUISIANA COMMUNITY & TECHNICAL COLLEGE SYSTEM

Dr. Monty Sullivan

LCTCS President

THROUGH: Dr. René Cintron

Chief Education and Training Officer

FROM: Dr. Adrienne Fontenot

Director of Adult Learning and Educational Programs

DATE: July 27, 2020

SUBJECT: Program Requests at Fletcher Technical Community College

FOR BOARD ACTION:

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

Program Addition

TO:

1. Associate of Science (AS) in Environmental Science (CIP 03.0104) - 5 STARS

Program Modification

2. Technical Diploma (TD) in Automotive Technology (CIP 47.0604) – 4 STARS

Background: Fletcher Technical Community College (FTCC) is requesting to add an AS in Environmental Science. This program is both designed for students who plan to transfer to a four-year college and those interested in entry-level field and technical employment within Louisiana Wildlife and Fisheries, Department of Environmental Quality, Department of Health and Hospitals, or coastal restoration efforts.

Fletcher Technical Community College (FTCC) is requesting to modify the TD in Automotive Technology at the request of the Advisory Board. The credit hours/clock hours will be reduced to accelerate student completion without compromising learning outcomes to meet the needs of industry.

Fiscal Impact: There are no anticipated expenditures associated with these changes 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 FTCC to better meet student and workforce needs.

Mahyisek	8-12-20
Approved Dr. Monty Sullivan	Date

Associate of Science in Environmental Science - 07/14/2020

TYPE OF PROPOSED CHANGE: New Program

PROGRAM NAME: Associate of Science in Environmental Science

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: 5 Stars

Name: Program Delivery Mode:

CIP: 03.0104 Credit Hours: 0.00 Contact Hours: 0.00 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 environmental science or who want to obtain an entry level technician position. An Associates of Science in Environmental 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 environmental scientists. There are 2 concentrations for the A.S. in Environmental Science: Biology or Chemistry.

IMPLEMENTATION DATE
(Semester and Year)

Spring 2021

HISTORY OF PRIOR ACTIONS

Provide an overview of changes to this program.

No prior actions, this is a new program proposal

JUSTIFICATION FOR THE PROPOSED CHANGE

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

An Associate of Science in Environmental Science is both designed for students who plan 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 Louisiana Wildlife and Fisheries, Department of Environmental Quality, Department of Health and Hospitals, or coastal restoration efforts, as an example. Currently, there is a high demand for students with a field experience skills. This program will allow students to build a strong foundation in math, science, and an introduction to Environmental issues.

Overall Program Objectives:

Understand the basic principles of environmental science, including the basis of scientific laws and theories. Effectively communicate and critically evaluate scientific observations through collecting, analyzing, and interpreting environmental data.

Pursue meaningful careers are environmental scientists who maintain continuing educational growth during their careers. Engage in effective partnerships with academic institutions and industrial organizations in coastal restoration, as well as environmental investigations.

Biology Concentration Objectives:

Understand the importance of the biological levels of organization (i.e. individual/organismal, population, community, ecosystem) in the study of environmental science

Understand the role of evolutionary processes in the study of environmental science Understand how human activity can influence the health and wellness of ecosystems

Chemistry Concentration Objectives:

Faculty:

Support:

Apply analytical and scientific concepts in identifying and solving environmental concerns.

Summarize professional and ethical responsibility in environmental issues.

QUALIFIED FACULTY (Check all that apply)

Demonstrate knowledge and skills required to perform environmental testing.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:

Use Existing Faculty: No	Hire Adjunct Faculty: No	Hire Full-Time Faculty: No				
# - Full Time: 0	# - 0	# - 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:						

Library Resources:

Other:

Facilities:

Related Fields:

MINIMUM CREDENTIALS REQUIRED FOR FACULTY

Chemistry, Geology or related fields

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department:

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 Associates of Science in Environmental Science will be housed in the STEM department. The proposed program will not require any additional administrative responsibilities. Existing space will be utilized to its fullest extent; however, two new chemistry labs will have to be built to support this program. One Chemistry lab will reside in the new Maritime building at our Dickson Road site and the other Chemistry lab will reside in the new Allied Health building.

ANTICIPATED ENROLLMENT: Students Year One Year Two Year Three **Year Four Year Five** 10 20 25 30 35 DAY **EVENING DISTANCE** 5 10 15 20 25 **EDUCATION** These projections were based off of the need to fill positions in the local economy and in student **Describe Process for** interest. **Attaining & Estimating Enrollment:**

PROGRAM ACCREDITATION:				
Is Program Accreditation, Licensure or Certification Required?	No			
	Accreditation status:			
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.

Subjec t Code	Cours e Numb er	Course Title	Lectur e Hours	Lab Hours	Conta ct Hours	Credit Hours	Clinic al Hours
Program, Degree or Concentration:					Credit 1	Hours: 0.0	00

BENEFITS TO THE SYSTEM

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

Our community is facing a multitude of problems as a result of climate change and sea level rise. As a result, many of our students can find employment in positions to help us combat these problems. Our students will be trained to conduct investigations to identify, mitigate, or eliminate sources that pollute our environment or pose hazards to the health and well-being of our community. This program also helps students become informed citizen scientists concerning the issues our state is facing. In a collective effort to restore, support, and build our state, many partnerships will be built with universities, state agencies, businesses, and community based organizations. Building these partnerships also helps further the mission of Fletcher and LCTCS.

KEYWORDS

Environmental Science

Subject Code	Course	Course Title	Lecture Hours	Lab Hours	Contact Hours	Credit
		First Semester (16 cr b			110010	
ENGL	1010	English Composition I	3	0	3	3
MATH	1100	College Algebra	3	0	3	3
BIOL	1030	Biology I (majors)	3	0	3	3
BIOL	1031	Biology I Laboratory (majors)	0	1	3	1
1 9		Humanity	3	0	3	3
		Social Science	3	0	3	3
8		Second Semester (16 cr.	hrs)	0	· · · · · · · · · · · · · · · · · · ·	
ENGL	1020	English Composition II	3	0	3	3
MATH	1110	Trigonometry	3	0	3	3
CHEM	1123	Chemistry I (majors)	3	0	3	3
CHEM	1121	Chemistry I Laboratory (majors)	0	1	3	1
ENSC	1103	Introduction to Environmental Science	3	0	3	3
ENSC	1010	Introduction to Ecology	3	0	3	3
		Third Semester (14 (15) c	t bits)			
CHEM	1133	Chemistry II (majors)	3	0	3	3
CHEM	1131	Chemistry II Laboratory (majors)	0	1	3	1
BIOL	1040	Biology II (majors)	3	0	3	3
BIOL	1041	Biology II Laboratory (majors)	0	1	3	1
MATH	2100	Introductory Statistics	3	0	3	3
ENSC, CHEM, GEOL	xxxx	ENSC Electives For Biology track choose from: BIOL 2121/2131, ENSC 1020, ENSC 1030, ENSC 2010, GEOL 1400 For Chemistry track, choose from: CHEM 1140, CHEM 2213/2211, ENSC 2030, ENSC 2040, GEOL 1310	3	(1)	3 (4)	3 (4)
		Fourth Semester (16 cr.)	uts)	60 5		
PHYS	1030	Physics I (algebra/trig based)	3	0	3	3
PHYS	1031	Physics I (algebra/trig based)	0	1	3	1
ENSC	2020	Environmental Science: Field and Research Methods	3	0	3	3
ENSC		ENSC Electives For Biology track choose from: BIOL 2121/2131, ENSC 1020, ENSC 1030, ENSC 2010, GEOL 1400 For Chemistry track, choose from: CHEM 1140, CHEM 2213/2211, ENSC 2030, ENSC 2040, GEOL 1310	6	0	6	6
		Fine Arts	3	0	3	3

The total in the parenthesis reflects if the student chooses the lab option with either BIOL 2121/2 1 or CHEM 2213/2211

Automotive Technology - 06/03/2020

TYPE OF PROPOSED CHANGE: Curriculum Modification

PROGRAM NAME: Automotive Technology

AWARD LEVEL(S

For Board of Regents and LCTCS Review:

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 DDOCDAM(S)	and AWADD I EVEL	(2)
NAME OF PROGRAM(S)	ana AWAKD LEVEL	(5)

Stars: 4 Stars

Name: Automotive Technology Program Delivery Mode: Standard

Technical Diploma (T.D.) **CIP:** 470604 Credit Hours: 47.00 Contact Hours: 1065.00

IBC: S/P2 Automotive

Service Safety

Issuing Body: S/P2 **Course Title:** Intro to

Automotive Technology

Course **Prefix: AUTO**

Course **Number:** 1000

Credits Awarded: 1.00

IBC Awarded upon

Completion? : No-Partial Requirements

IBC: S/P2 Automotive Service Safety Issuing Body: S/P2 **Course Title:** Intro to Automotive

Technology Lab

Course **Prefix:** AUTO

Course **Number:** 1001

Credits Awarded: 1.00

IBC Awarded upon **Completion?**

: No-Partial Requirements

Name: Power Train Technician Program Delivery Mode: Standard

Technical Diploma (T.D.) CIP: 470604 Credit Hours: 19.00 Contact Hours: 435.00

IBC: Manual Drive Train and Axles

Issuing Body: National Institute for Automotive Service Excellence

Course Title: Manual Drive **Trains**

Course **Prefix: AUTO**

Course **Number:** 1300

Credits Awarded: 2.00

IBC Awarded upon **Completion?** : No-Test is

Required

IBC: Manual Drive Train and National Axles Service CIP: 470604 CIP: 470604 **IBC:** Engine Repair Excellence

Issuing Body: Course Title: Manual Drive Institute for Trains Lab Automotive Excellence

Course Prefix: AUTO

Course **Number:** 1301

Credits Awarded: 2.00

Awarded upon **Completion?:** No-Test is Required

IBC

Name: Engine Performance Technician Program Delivery Mode: Standard

Credit Hours: 20.00 Contact Hours: 465.00 Technical Diploma (T.D.)

Name: Engine Repair Technician Program Delivery Mode: Standard

Credit Hours: 6.00 Contact Hours: 135.00 Technical Diploma (T.D.)

Issuing Body: National Institute for Automotive Service

Course Title: Engine Repair

Course **Prefix:** AUTO

Course **Number:** 1100

Credits Awarded: 2.00

IBC Awarded upon **Completion?:** No-Test is

Required

IBC: Engine Repair

Issuing Body: National Institute for Automotive Service Excellence

Course Title: Engine Repair

Course **Prefix:** AUTO

Course **Number:** 1101

Credits Awarded: 2.00

IBC Awarded upon **Completion?:** No-Test is

Required

Program Delivery Mode: Standard Name: Transmission Technician

Credit Hours: 8.00 Contact Hours: 180.00 Technical Diploma (T.D.) CIP: 470604

IBC: Automatic Transmission/T ransaxle

Issuing Body: National Institute for Automotive Service Excellence

Course Title: Automatic Transmission & Transaxle

Course **Prefix:** AUTO

Course Number: 1200

Credits Awarded: 2.00

IBC Awarded upon **Completion?:** No-Test is Required

IBC: Automatic Transmission/T ransaxle

Issuing Body: National Institute for Automotive Service Excellence

Course Title: Automatic Transmission/T ransaxle Lab

Course **Prefix:** AUTO

Course **Number:** 1201

Credits Awarded: 2.00

IBC Awarded upon **Completion?:** No-Test is

Required

Name: Steering & Suspension and Brakes Technician

Program Delivery Mode: Standard

CIP: 470604 Credit Hours: 9.00 Contact Hours: 210.00 Technical Diploma (T.D.)

IBC: Suspension and Steering

Issuing Body: National Institute for Automotive Service Excellence

Course Title: Steering & Suspension

Course **Prefix:** AUTO

Course Number: 1400

Credits Awarded: 2.00

IBC Awarded upon **Completion?:** No-Test is

Required

IBC: Course Title: Course **Credits IBC Issuing Body:** Course Suspension and National Steering & **Prefix:** AUTO **Number:** Awarded: Awarded Steering Institute for Suspension Lab 1401 3.00 upon Automotive **Completion?:** Service No-Test is Excellence Required Name: Electrical Technician Program Delivery Mode: Standard Credit Hours: 8.00 Contact Hours: 180.00 Technical Diploma (T.D.) CIP: 470604 **IBC: Course Title:** Course Course **Credits IBC Issuing Body:** Electrical/Elect National Electrical/Elect **Prefix:** AUTO **Number:** Awarded: Awarded ronic Systems Institute for ronic I 1600 2.00 upon Automotive **Completion?:** Service No-Test is Excellence Required **IBC**: **Course Title:** Course Course **Credits IBC Issuing Body:** Electrical/Elect National Electrical/Elect Prefix: AUTO **Number:** Awarded: Awarded ronic Systems Institute for ronic I Lab 1601 2.00 upon Automotive **Completion?:** Service No-Test is Excellence Required **IBC: Issuing Body: Course Title:** Course Course Credits **IBC** Electrical/Elect National Electrical/Elect Prefix: AUTO Number: Awarded: Awarded Institute for ronic II ronic Systems 2.00 upon Automotive **Completion?:** Service No-Test is Excellence Required **IBC: Course Title:** Credits **IBC Issuing Body:** Course Course Electrical/Elect National Electrical/Elect **Prefix:** AUTO **Number:** Awarded: Awarded ronic Systems Institute for ronic II Lab 2.00 1611 upon Automotive **Completion?:** Service No-Test is Excellence Required Program Delivery Mode: Standard Name: Heating & Air Conditioning Technician Technical Diploma (T.D.) CIP: 470604 Credit Hours: 6.00 Contact Hours: 135.00 **IBC:** Heating **Issuing Body: Course Title: Credits IBC** Course Course and Air National Heating & Air **Prefix:** AUTO **Number:** Awarded: Awarded Conditioning Institute for Conditioning 1700 2.00 upon Automotive **Completion?:** Service No-Test is Excellence Required **Course Title: IBC:** Heating **Issuing Body:** Course Course **Credits IBC** National Heating & Air and Air **Prefix:** AUTO **Number:** Awarded: Awarded Conditioning Institute for Conditioning 1701 2.00 upon Automotive Lab **Completion?:** Service No-Test is Excellence Required Name: Engine Performance Technician Program Delivery Mode: Standard Technical Diploma (T.D.) Credit Hours: 10.00 Contact Hours: 240.00 **CIP:** 470604

IBC: Engine Performance	Issuing Body: National Institute for Automotive Service Excellence	Course Title: Engine Performance I	Course Prefix: AUTO	Course Number: 1800	Credits Awarded: 2.00	IBC Awarded upon Completion?: No-Test is Required
IBC: Engine Performance	Issuing Body: National Institute for Automotive Service Excellence	Course Title: Engine Performance I Lab	Course Prefix: AUTO	Course Number: 1801	Credits Awarded: 3.00	IBC Awarded upon Completion?: No-Test is Required
IBC: Engine Performance	Issuing Body: National Institute for Automotive Service Excellence	Course Title: Engine Performance II	Course Prefix: AUTO	Course Number: 1810	Credits Awarded: 2.00	IBC Awarded upon Completion?:
IBC: Engine Performance	Issuing Body: National Institute for	Course Title: Engine Performance II	Course Prefix: AUTO	Course Number: 1811	Credits Awarded: 3.00	IBC Awarded upon

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.

Curriculum Modifications: Previous credit hours: 59 Previous clock hours: 1,395

IMPLEMENTATION DATE

Fall 2020

HISTORY OF PRIOR ACTIONS

Provide an overview of changes to this program.

Refer to curriculum library

(Semester and Year)

JUSTIFICATION FOR THE PROPOSED CHANGE

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

Advisory board supports reducing credit hours/clock hours to facilitate students completing the program more quickly to meet the needs of industry.

SITE(S) OF NEW PROGRAM OR CURRICULUM MODIFICATION:

QUALIFIED FACULTY (Check all that apply)					
Use Existing Faculty: No	Hire Adjunct Faculty: No	Hire Full-Time Faculty: No			
# - Full Time: 1 # - Part Time: 0	# - 0	# - 0			

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: Associate's Degree	Experience: Prior teaching experience preferred but not required	Certification: ASE Professional Technician/Master Technician

FISCAL IMPACT: ADMINISTRATION and IMPLEMENTATION COSTS

Department: Automotive Technology

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 additional costs to be incurred as a result of program curriculum changes.

ANTICIPATED ENROLLMENT:

Students	Year One	Year Two	Year Three	Year Four	Year Five
DAY	25	28	30	33	35
EVENING					
DISTANCE EDUCATION					

Describe Pro	cess for
Attaining &	Estimating
Enrollment:	C

Anticipated enrollment is based on current and enrollment and enrollment trends.

PROGRAM ACCREDITATION:	
Is Program Accreditation, Licensure or Certification Required?	Mandatory
	Accreditation status: Approved
Type/Name of Program Accreditation, Licensure or Certification Required:	If YES, please provide projected accreditation/licensure/certification date: Program is already ASE NATEF accredited.

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.

Subjec t Code	Cours e Numb er	Course Title	Lectur e Hours	Lab Hours	Conta ct Hours	Credit Hours	Clinic al Hours
Prograi	m, Degree	or Concentration:			Credit	Hours: 0.0	0

BENEFITS TO THE SYSTEM

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

This curriculum modification will benefit students by allowing them to complete the program more quickly and thus enter the workforce sooner. Advisory board members have indicated a great need to have individuals available for hire

KEYWORDS			

FLETCHER TECHNICAL COMMUNITY COLLEGE

PROGRAM CURRICULUM CHANGES

Old Program Title Automotive Technology OLD CURRICULUM			New Program Title Automotive Technology NEW CURRICULUM			
	Major Requirements			Major Requirements		
Course No.	Course Title Credit Hours		Course No.	Course Title	Credit Hours	
AUTO 1000	Intro to Automotive Technology	2	AUTO 1000	Intro to Automotive Technology	1	
AUTO 1001	Intro to Automotive Technology Lab	1	AUTO 1001	Intro to Automotive Technology Lab	1	
AUTO 1100	Engine Repair	2	AUTO 1100	Engine Repair	2	
AUTO 1101	Engine Repair Lab	3	AUTO 1101	Engine Repair Lab	2	
	CTC- Engine Repair Technician (8)			CTC- Engine Repair Technician (6)		
AUTO 1200	Automatic Transmission & Transaxle	2	AUTO 1200	Automatic Transmission & Transaxle	2	
AUTO 1201	Automatic Transmission and Transaxle Lab	3	AUTO 1201	Automatic Transmission and Transaxle Lab	2	
AUTO 1300	Manual Drive Trains	2	AUTO 1300	Manual Drive Trains	2	
AUTO 1301	Manual Drive Trains Lab	3	AUTO 1301	Manual Drive Trains Lab	2	
	CTC- Transmission Technician (10)			CTC- Transmission Technician (8)		
AUTO 1400	Steering & Suspension	2	AUTO 1400	Steering & Suspension	2	
AUTO 1401	Steering & Suspension Lab	3	AUTO 1401	Steering & Suspension Lab	3	
AUTO 1500	Brakes	2	AUTO 1500	Brakes	2	
AUTO 1501	Brakes Lab	2	AUTO 1501	Brakes Lab	2	
	CTC- Steering and Brakes (9)			CTC- Steering & Suspension and Brakes Technician (9)		
AUTO 1600	Electrical/Electronic I	2	AUTO 1600	Electrical/Electronic I	2	
AUTO 1601	Electrical/Electronic I Lab	3	AUTO 1601	Electrical/Electronic I Lab	2	
AUTO 1610	Electrical/Electronic II	2	AUTO 1610	Electrical/Electronic II	2	
AUTO 1611	Electrical/Electronic II Lab	3	AUTO 1611	Electrical/Electronic II Lab	2	
	CTC- Electrical Technician (10)			CTC- Electrical Technician (8)		
AUTO 1700	Heating & Air Conditioning	2	AUTO 1700	Heating & Air Conditioning	2	
AUTO 1701	Heating & Air Conditioning Lab	3	AUTO 1701	Heating & Air Conditioning Lab	2	
	CTC- Heating & Air Conditioning (8) (includes AUTO 1000 & AUTO 1001)			CTC- Heating & Air Conditioning Technician (6) (includes AUTO 1000 & AUTO 1001)		
AUTO 1800	Engine Performance I	2	AUTO 1800	Engine Performance I	2	
AUTO 1801	Engine Performance I Lab	3	AUTO 1801	Engine Performance I Lab	3	
AUTO 1810	Engine Performance II	2	AUTO 1810	Engine Performance II	2	
AUTO 1811	Engine Performance Lab II	3	AUTO 1811	Engine Performance Lab II	3	

AUTO 1820	Engine Performance III	2			
AUTO 1821	Engine Performance Lab III	3			
	CTC- Engine Performance Technician (15)			CTC- Engine Performance Technician (10)	
CLCR 2000	Career Preparation	2	CLCR 2000	Career Preparation	2

Certificate of Technical Studies Tracks

Course No.	Course Title	Credit Hours	Course No.	Course Title	Credit Hours
AUTO 1000	Intro to Automotive Technology	2	AUTO 1000	Intro to Automotive Technology	1
AUTO 1001	Intro to Automotive Technology Lab	1	AUTO 1001	Intro to Automotive Technology Lab	1
AUTO 1100	Engine Repair	2	AUTO 1100	Engine Repair	2
AUTO 1101	Engine Repair Lab	3	AUTO 1101	Engine Repair Lab	2
AUTO 1200	Automatic Transmission & Transaxle	2	AUTO 1200	Automatic Transmission & Transaxle	2
AUTO 1201	Automatic Transmission and Transaxle Lab	3	AUTO 1201	Automatic Transmission and Transaxle Lab	2
AUTO 1300	Manual Drive Trains	2	AUTO 1300	Manual Drive Trains	2
AUTO 1301	Manual Drive Trains Lab	3	AUTO 1301	Manual Drive Trains Lab	2
			AUTO 1400	Steering & Suspension	2
			AUTO 1401	Steering & Suspension Lab	3
	CTS- Power Train Technician (18)			CTS- Power Train Technician (19)	
AUTO 1000	Intro to Automotive Technology	2	AUTO 1000	Intro to Automotive Technology	1
AUTO 1001	Intro to Automotive Technology Lab	1	AUTO 1001	Intro to Automotive Technology Lab	1
			AUTO 1500	Brakes	2
			AUTO 1501	Brakes Lab	2
AUTO 1600	Electrical/Electronic I	2	AUTO 1600	Electrical/Electronic I	2
AUTO 1601	Electrical/Electronic I Lab	3	AUTO 1601	Electrical/Electronic I Lab	2
AUTO 1610	Electrical/Electronic II	2	AUTO 1610	Electrical/Electronic II	2
AUTO 1611	Electrical/Electronic II Lab	3	AUTO 1611	Electrical/Electronic II Lab	2
AUTO 1700	Heating & Air Conditioning	2	AUTO 1700	Heating & Air Conditioning	2
AUTO 1701	Heating & Air Conditioning Lab	3	AUTO 1701	Heating & Air Conditioning Lab	2
	CTS- Electrical Technician (18)			CTS- Electrical Technician (18)	
AUTO 1000	Intro to Automotive Technology	2	AUTO 1000	Intro to Automotive Technology	1
AUTO 1001	Intro to Automotive Technology Lab	1	AUTO 1001	Intro to Automotive Technology Lab	1
			AUTO 1600	Electrical/Electronic I	2
			AUTO 1601	Electrical/Electronic I Lab	2
			AUTO 1610	Electrical/Electronic II	2
			AUTO 1611	Electrical/Electronic II Lab	2

AUTO 1800	Engine Performance I	2	AUTO 1800	Engine Performance I	2
AUTO 1801	Engine Performance I Lab	3	AUTO 1801	Engine Performance I Lab	3
AUTO 1810	Engine Performance II	2	AUTO 1810	Engine Performance II	2
AUTO 1811	Engine Performance Lab II	3	AUTO 1811	Engine Performance Lab II	3
AUTO 1820	Engine Performance III	2			
AUTO 1821	Engine Performance Lab III	3			
	CTS- Engine Performance Technician (18)			CTS- Engine Performance Technician (20)	

General Education Requirements

Course No.	Old General Education Requirements	Credit Hours	Course No.	New General Education Requirements	Credit Hours

TOTAL HOURS: 59 TOTAL HOURS: 47