#### BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE

# **Automotive Technician Option Associate in Applied Science**

Academic Plan Code - 4706047019

#### **Description:**

Instruction in systems such as engines, fuel, on-board computers, transmissions, steering, suspension, and brakes is the basis for this program.

The Automotive Technician option provides knowledge of the various systems used to develop skills in troubleshooting, performing preventative maintenance, servicing and repairing automobiles. The program, which is designed to be completed in two years, prepares graduates for entry-level service technician jobs in the auto repair industry. The student may be provided a work-study experience alternating between periods of work on-site and work in a classroom-laboratory setting.

The student may take the ASE exams in these areas when they have completed the requirements for these tests.

Course	Course Descriptions General Education Core	Credit Hours
	Mathematics	3
	***	3
	Science Social Interaction	
		3
	Heritage/Humanities/Fine Arts/Foreign Language	3
	Writing/Accessing Information	3
-	Computer Literacy: Computer Literacy	0-3
	must be demonstrated either by	
	competency exam or by completing a computer literacy course.	
	Subtotal Credit Hours	15-18
		10 10
	Technical Courses	
ADX120	Basic Automotive Electricity	3
ADX121	Basic Automotive Electricity Lab	2
ADX 260	Electrical Systems	3
ADX 261	Electrical Systems Lab	2
ADX 150	Engine Repair	3
ADX 151	Engine Repair Lab	2
AUT 140	Basic Fuel and Ignition Systemts	3
AUT 141	Basic Fuel and Ignition Systems Lab	2
AUT 160	Suspension and Steering	3
AUT 161	Suspension and Steering Lab	2
AUT 110	Brake Systems	3
AUT 111	Brake Systems Lab	2
AUT 130	Manual Transmissions	3
AUT 131	Manual Transmissions Lab	2
AUT 180	Automatic Transmission	3
AUT 181	Automatic Transmission Lab	2
AUT 170	Climate Control	3
AUT 171	Climate Control Lab	1
AUT 142	Emission Systems	3

AUT 143	Emission Systems Lab	2
AUT 240	Computer Control Systems	3
AUT 241	Computer Control Systems Lab	2
	Subtotal Credit Hours	54
	Total Credit Hours	69-72

# Automotive Technician Option Diploma

Academic Plan Code - 4706044019

## **Description:**

Instruction in systems such as engines, fuel, on-board computers, transmissions, steering, suspension, and brakes is the basis for this program.

The Automotive Technician program provides knowledge of the various systems used to develop skills in troubleshooting, performing preventative maintenance, servicing and repairing automobiles. The program, which is designed to be completed in two years, prepares graduates for entry-level service technician jobs in the auto repair industry. The student may be provided a work-study experience alternating between periods of work on-site and work in a classroom-laboratory setting.

The student may take the ASE exams in these areas when they have completed the requirements for these tests.

Course	<b>Course Description</b>	Credit Hours	
General Education			
Area 1	Writing/Accessing Information, Oral	3	
	Communication, Humanities/Heritage		
Area 2	Social Science, Behavior Science,	3	
	Natural/Applied Science, or		
	Mathematics		
Area 3	Computer Literacy Course OR	0-3	
	Demonstrated Competency		
	Subtotal Credit Hours	6-9	
	wing courses may be used for six of the nine		
if a diploma	is sought. The following courses will not	count	
toward the A	AAS degree.		
	Technical Core or Support Courses		
ADX120	Basic Automotive Electricity	3	
<b>A</b> DX121	Basic Automotive Electricity Lab	2	
ADX150	Engine Repair	3	
ADX151	Engine Repair Lab	2	
ADX170	Climate Control	3	
ADX171	Climate Control Lab	1	
ADX260	Electrical Systems	3	
ADX261	Electrical Systems Lab	2	
AUT110	Brake Systems	3	
AUT111	Brake Systems Lab	2	
AUT130	Manual Transmissions	3	
	Manual Transmissions Lab	2	
AUT131	Wandar Transfinssions Eac		
AUT131 AUT140	Basic Fuel and Ignition Systems	3	

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	Total Credit Hours	61-64
	Subtotal Credit Hours	55
AUT241	Computer Control Systems and Diagnosis	2
AUT240	Computer Control Systems and Diagnosis	3
AUT198	Practicum	(1)
COE199	Cooperative Education <b>OR</b>	1
AUT181	Automatic Transmission/Transaxle Lab	2
AUT180	Automatic Transmission/Transaxle	3
AUT161	Suspension and Steering Lab	2
AUT160	Suspension and Steering	3
AUT143	Emission Systems Lab	2
AUT142	Emission Systems	3

# **Automotive Technician Certificates**

Course Number	Course Title	Credit Hours

# **Automotive Air Conditioning Mechanic**

Plan Code -4706043019

ADX170	Climate Control	3
ADX171	Climate Control Lab	1
	Total Credit Hours	4

# **Automotive Electrician**

Plan Code -4706043039

ADX120	Basic Automotive Electricity	3
ADX121	Basic Automotive Electricity Lab	2
ADX260	Electrical Systems	3
ADX261	Electrical Systems Lab	2
	Total Credit Hours	10

### Manual Transmission/Drive Train Technician

Plan Code -4706043059

AUT130	Manual Transmissions	3
AUT131	Manual Transmissions Lab	2
	Total Credit Hours	5

### **Automatic Transmission/Transaxle Technician**

Plan Code -4706043079

AUT180	Automatic Transmission/Transaxle	3
AUT181	Automatic Transmission/Transaxle Lab	2
	Total Credit Hours	5

# **Brake Repairer**

Plan Code -4706043069

AUT110	Brake Systems	3
AUT111	Brake Systems Lab	2
	Total Credit Hours	5

# **Engine Repairer**

Plan Code - 4706043089

AUT150	Engine Repair	3
AUT151	Engine Repairer	2
	Total Credit Hours	5

## **Front End Mechanic**

Plan Code -4706043099

	Total Credit Hours	5
AUT161	Suspension and Steering Lab	2
AUT160	Suspension and Steering	3

**Tune-up Mechanic** Plan Code -4706043109

ADV120	Prair Code -4/00045109	2
ADX120	Basic Automotive Electricity	3
ADX121	Basic Automotive Electricity Lab	2
ADX260	Electrical Systems	3
ADX261	Electrical Systems Lab	2
AUT140	Basic Fuel and Ignition Systems	3
AUT141	Basic Fuel and Ignition Systems Lab	2
AUT142	Emissions Systems	3
AUT143	Emissions Systems Lab	2
AUT240	Computer Control Systems and	3
AUT241	Diagnosis	2
	Computer Control Systems and	
AU1241	Diagnosis Lab	2
	Total Credit Hours	25