

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.

ADX171	Climate Control Lab	1
ADX261	Electrical Systems Lab	2
AUT111	Brake Systems Lab	2
AUT131	Manual Transmissions Lab	2
AUT141	Basic Fuel and Ignition Systems Lab	2
AUT143	Emission Systems Lab	2
AUT161	Suspension and Steering Lab	2
AUT181	Automatic Transmission/Transaxle Lab	2
AUT241	Computer Control Systems and Diagnosis Lab	2
Subtotal Credit Hours		21
Total Credit Hours		76

**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	Course Descriptions	Credit Hours
General Education Core		
	Mathematics	3
	Science	3
	Social Interaction	3
	Heritage/Humanities	3
	Writing/Accessing Information	3
	Oral Communication	3
	Subtotal Credit Hours	18
Technical Core or Support Courses		
ADX120	Basic Automotive Electricity OR	3
BEX100	Basic Electricity for Non-Majors	(3)
ADX150	Engine Repair	3
ADX170	Climate Control	3
ADX260	Electrical Systems	3
AUT110	Brake Systems	3
AUT130	Manual Transmissions	3
AUT140	Basic Fuel and Ignition Systems	3
AUT142	Emission Systems	3
AUT160	Suspension and Steering	3
AUT180	Automatic Transmission/Transaxle	3
COE199	Cooperative Education OR	1
AUT198	Practicum	
AUT240	Computer Control Systems and Diagnosis	
CPU150	Computer Fundamentals OR	3
CIS100	Introduction to Computers	(3)
	Subtotal Credit Hours	37
Automotive Technician Option		
ADX121	Basic Automotive Electricity Lab OR	2
BEX101	Basic Electricity Lab for Non-Majors	(2)
ADX151	Engine Repair Lab	2

Course	Course Description	Credit Hours
General Education		
	Mathematics	3
	Science	3
	Writing/Accessing Information OR	3
WPP200	Workplace Principles*	(3)
TEC200	Technical Communications*	(3)
	Subtotal Credit Hours	9
Technical Core or Support Courses		
ADX120	Basic Automotive Electricity AND	3
ADX121	Basic Automotive Electricity Lab OR	2
BEX100	Basic Electricity for Non-Majors AND	(3)
BEX101	Basic Electricity Lab for Non-Majors	(2)
ADX150	Engine Repair	3
ADX151	Engine Repair Lab	2
ADX170	Climate Control	3
ADX171	Climate Control Lab	1

* The following courses may be used for six of the nine credits if a diploma is sought. The following courses will not count toward the AAS degree.

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ADX260	Electrical Systems	3
ADX261	Electrical Systems Lab	2
AUT110	Brake Systems	3
AUT111	Brake Systems Lab	2
AUT130	Manual Transmissions	3
AUT131	Manual Transmissions Lab	2
AUT140	Basic Fuel and Ignition Systems	3
AUT141	Basic Fuel and Ignition Systems Lab	2
AUT142	Emission Systems	3
AUT143	Emission Systems Lab	2
AUT160	Suspension and Steering	3
AUT161	Suspension and Steering Lab	2
AUT180	Automatic Transmission/Transaxle	3
AUT181	Automatic Transmission/Transaxle Lab	2
COE199	Cooperative Education OR	1
AUT198	Practicum	(1)
AUT240	Computer Control Systems and Diagnosis	3
AUT241	Computer Control Systems and Diagnosis	2
CPU150	Computer Fundamentals OR	3
CIS100	Introduction to Computers	(3)
	Subtotal Credit Hours	58
	Total Credit Hours	67

Automotive Technician Certificates

Course Number	Course Title	Credit Hours
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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 AND	3
ADX121	Basic Automotive Electricity Lab OR	2
BEX100	Basic Electricity for Non-Majors AND	(3)
BEX101	Basic Electricity Lab for Non-Majors	(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		
AUT160	Suspension and Steering	3
AUT161	Suspension and Steering Lab	2
	Total Credit Hours	5

Tune-up Mechanic Plan Code -4706043109		
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 Diagnosis	3
AUT241	Computer Control Systems and Diagnosis Lab	2
	Total Credit Hours	25