

**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	Credit Hours
<b>General Education Core</b>		
	Mathematics	3
	Science	3
	Social Interaction	3
	Heritage/Humanities	3
	Writing/Accessing Information	3
	Oral Communication	3
	<b>Subtotal Credit Hours</b>	<b>18</b>
<b>Technical Core or Support Courses</b>		
ADX120	Basic Automotive Electricity <b>OR</b>	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 <b>OR</b>	1
AUT198	Practicum	
AUT240	Computer Control Systems and Diagnosis	
CPU150	Computer Fundamentals <b>OR</b>	3
CIS100	Introduction to Computers	(3)
	<b>Subtotal Credit Hours</b>	<b>37</b>
<b>Automotive Technician Option</b>		
ADX121	Basic Automotive Electricity Lab <b>OR</b>	2
BEX101	Basic Electricity Lab for Non-Majors	(2)
ADX151	Engine Repair Lab	2

(Courses are listed by category and not necessarily in the order to be taken)

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
	<b>Subtotal Credit Hours</b>	<b>21</b>
	<b>Total Credit Hours</b>	<b>76</b>

**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 Description	Credit Hours
<b>General Education</b>		
	Mathematics	3
	Science	3
	Writing/Accessing Information <b>OR</b>	3
WPP200	Workplace Principles*	(3)
TEC200	Technical Communications*	(3)
	<b>Subtotal Credit Hours</b>	<b>9</b>
* 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.		
<b>Technical Core or Support Courses</b>		
ADX120	Basic Automotive Electricity <b>AND</b>	3
ADX121	Basic Automotive Electricity Lab <b>OR</b>	2
BEX100	Basic Electricity for Non-Majors <b>AND</b>	(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

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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 <b>OR</b>	1
AUT198	Practicum	(1)
AUT240	Computer Control Systems and Diagnosis	3
AUT241	Computer Control Systems and Diagnosis	2
CPU150	Computer Fundamentals <b>OR</b>	3
CIS100	Introduction to Computers	(3)
	<b>Subtotal Credit Hours</b>	<b>58</b>
	<b>Total Credit Hours</b>	<b>67</b>

**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
	<b>Total Credit Hours</b>	<b>4</b>

**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
	<b>Total Credit Hours</b>	<b>10</b>

**Manual Transmission/Drive Train Technician**  
Plan Code -4706043059

AUT130	Manual Transmissions	3
AUT131	Manual Transmissions Lab	2
	<b>Total Credit Hours</b>	<b>5</b>

**Automatic Transmission/Transaxle Technician**  
Plan Code -4706043079

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

<b>Brake Repairer</b> Plan Code -4706043069		
AUT110	Brake Systems	3
AUT111	Brake Systems Lab	2
	<b>Total Credit Hours</b>	<b>5</b>

<b>Engine Repairer</b> Plan Code - 4706043089		
AUT150	Engine Repair	3
AUT151	Engine Repairer	2
	<b>Total Credit Hours</b>	<b>5</b>

<b>Front End Mechanic</b> Plan Code -4706043099		
AUT160	Suspension and Steering	3
AUT161	Suspension and Steering Lab	2
	<b>Total Credit Hours</b>	<b>5</b>

<b>Tune-up Mechanic</b> 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
	<b>Total Credit Hours</b>	<b>25</b>