

For more information contact:
Hazard Community & Technical College
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Hazard, KY 41701
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All applicants meeting the appropriate academic requirement and technical standards shall be considered equally for admission to a community college or any academic program thereof regardless of race, color, religion, sex, marital status, beliefs, national origin, age, sexual orientation, or physical or mental disability.

How to Apply

Please submit the following items to the Admissions Office

1. A completed HCTC admissions application.
2. Official high school transcripts or GED scores, as applicable.
3. Official transcripts from other non-KCTCS colleges or institutions you have attended, if applicable.
4. ACT scores, if available. If you have not taken the ACT or you did not receive an 18 or higher in Writing, Reading, and/or Mathematics sections, you must take the COMPASS placement test, which is given at HCTC.

To contact the Admissions Office, call
800-246-7521, Ext. 73311.

www.Hazard.kctcs.edu

Automotive Technology



Certificates:**Automotive Air Conditioning Mechanic**

ADX 170 Climate Control	3
ADX 171 Climate Control Lab	1
Total Credits	4

Automotive Electrician

ADX 120 Basic Automotive Electricity AND	3
ADX 121 Basic Automotive Electricity Lab OR	2
BEX 100 Basic Electricity for Non-Majors AND	(3)
BEX 101 Basic Electricity Lab for Non-Majors	(2)
ADX 260 Electrical Systems	3
ADX 261 Electrical Systems Lab	2
Total Credits	10

Automatic Transmission/Transaxle Technician

AUT 180 Automatic Transmission/Transaxle	3
AUT 181 Automatic Transmission/Transaxle Lab	2
Total Credits	5

Brake Repairer

AUT 110 Brake Systems	3
AUT 111 Brake Systems Lab	2
Total Credits	5

Engine Repairer

AUT 150 Engine Repair	3
AUT 151 Engine Repairer	2
Total Credits	5

Front End Mechanic

AUT 160 Suspension and Steering	3
AUT 161 Suspension and Steering Lab	2
Total Credits	5

Manual Transmission/Drive Train Technician

AUT 130 Manual Transmissions	3
AUT 131 Manual Transmissions Lab	2
Total Credits	5

Tune-Up Mechanic

ADX 120 Basic Automotive Electricity	3
ADX 121 Basic Automotive Electricity Lab	2
ADX 260 Electrical Systems	3
ADX 261 Electrical Systems Lab	2
AUT 140 Basic Fuel and Ignition Systems	3
AUT 141 Basic Fuel and Ignition Systems Lab	2
AUT 142 Emissions Systems	3
AUT 143 Emissions Systems Lab	2
AUT 240 Computer Control Systems and Diagnosis	3
AUT 241 Computer Control Systems and Diagnosis Lab	2
Total Credits	25

General Information

Instruction in systems such as engines, fuel, on-board computers, transmissions, steering, suspension and brakes is the basis of this program. Knowledge of the various systems is used to develop skills in troubleshooting, performing preventive maintenance, servicing and repairing automobiles.

You will learn to...

- Discuss the work to be done with customers, service advisers, or inspectors
- Diagnose and find the trouble in the vehicle
- Inspect and test engine parts
- Prepare a written estimate of costs for the materials and labor for repairs
- Use repair manuals and charts
- Take the units apart and use calipers, micrometers, and gauges to examine parts
- Replace or repair the worn or damaged units
- Adjust or reline brakes
- Tighten body bolts
- Align wheels
- Overhaul or replace carburetors, starters, and alternators
- Rewire ignition systems and lighting systems
- Align front ends
- Replace shock absorbers
- Adjust the clutch
- Put in new headlights, heaters, mirrors, and windshield wipers
- Use many different tools and equipment such as pneumatic wrenches, a lathe or grinding machine, welding and flame cutting gear, jack or hoist, ohmmeters, ammeters, voltmeters, and electronic diagnostic equipment

NATEF CERTIFIED

Hazard Community and Technical College

**The Associate of Applied Science
Degree in General
Occupational/Technical Studies Guidelines**

In order to receive this degree you must do the following:

Complete general education components (15 credit hours minimum in specified areas – Mathematics, Natural Sciences, Social/ Behavioral Sciences, Humanities/ Fine Arts, Writing/Accessing Information)

Complete computer literacy.

Complete 42 - 58 credit hours of technical course work (Industrial Technology, Business Technology, Health and Human Services or other).

Verify residency requirements – at least 25% of the approved curriculum credits (15 – 19 credit hours) must be completed at the institution granting the degree (degree total 60 – 76 credit hours)

Develop learner degree completion plan.

Technical courses to be utilized in this degree will be taken from the list of approved technical courses at Hazard Community and Technical College.

***Listing of General Education Requirements may be found in KCTCS catalog.**

**Hazard Community and Technical College
Technical Campus
Automotive Technology**

Diploma: Automotive Technician

General Education:

	Mathematics	3
	Science	3
	Writing/Accessing Information	3 or
WPP 200	Workplace Principles*	(3)
TEC 200	Technical Communications*	(3)
	General Education Total Credit Hours	9

* 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.

Technical Core:

ADX 120	Basic Automotive Electricity AND	3
ADX 121	Basic Automotive Electricity Lab OR	2
BEX 100	Basic Electricity for Non-Majors AND	(3)
BEX 101	Basic Electricity Lab for Non-Majors	(2)
ADX 150	Engine Repair	3
ADX 151	Engine Repair Lab	2
ADX 170	Climate Control	3
ADX 171	Climate Control Lab	1
ADX 260	Electrical Systems	3
ADX 261	Electrical Systems 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 140	Basic Fuel and Ignition Systems	3
AUT 141	Basic Fuel and Ignition Systems Lab	2
AUT 142	Emission Systems	3
AUT 143	Emission Systems Lab	2
AUT 160	Suspension and Steering	3
AUT 161	Suspension and Steering Lab	2
AUT 180	Automatic Transmission/Transaxle	3
AUT 181	Automatic Transmission/Transaxle Lab	2
COE 199	Cooperative Education OR	1
AUT 198	Practicum	(1)
AUT 240	Computer Control Systems and Diagnosis	3
AUT 241	Computer Control Systems and Diagnosis	2
CIS 100	Introduction to Computers	3

Subtotal Credits: 58

Total Credits: 67