[Automotive Technology – Automotive Technician](https://bluegrass.kctcs.edu/education-training/program-finder/automotive-technology.aspx)

Diploma

Coordinator: Aaron N. Harlow (aaron.harlow@kctcs.edu) 859-246-6774

Student Name: Student ID:

*Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.*

Semester 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ADX 120 Basic Automotive Electricity | 3 |  |  | Coreq: ADX 121 |  |
| ADX 121 Basic Automotive Electricity Lab | 2 |  |  | Coreq: ADX 120 |  |
| ADX 150 Engine Repair | 3 |  |  | Coreq: ADX 151 |  |
| ADX 151 Engine Repair Lab | 2 |  |  | Coreq: ADX 150 |  |
| AUT 160 Suspension and Steering | 3 |  |  | Coreq: AUT 161 |  |
| AUT 161 Suspension and Steering Lab | 2 |  |  | Coreq: AUT 160 |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| AUT 110 Brake Systems | 3 |  |  | Coreq: AUT 111 |  |
| AUT 111 Brake Systems Lab | 2 |  |  | Coreq: AUT 110 |  |
| AUT 130 Manual Drive Train and Axles | 3 |  |  | Coreq: AUT 131 |  |
| AUT 131 Manual Drive Train and Axles Lab | 2 |  |  | Coreq: AUT 130 |  |
| AUT 140 Basic Fuel and Ignition Systems | 3 |  |  | Coreq: AUT 141 |  |
| AUT 141 Basic Fuel and Ignition Sys. Lab | 2 |  |  | Coreq: AUT 140 |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| AUT 142 Emission Systems | 3 |  |  | Coreq: AUT 143 |  |
| AUT 143 Emission Systems Lab | 2 |  |  | Coreq: AUT 142 |  |
| ADX 170 Heating and Air Conditioning | 3 |  |  | Coreq: ADX 171 |  |
| ADX 171 Heating and Air Conditioning Lab | 1 |  |  | Coreq: ADX 170 |  |
| ADX 260 Electrical Systems | 3 |  |  | Coreq: ADX 261 |  |
| ADX 261 Electrical Systems Lab | 2 |  |  | Coreq: ADX 260 |  |
| Written Communication, Oral Communication, OR Heritage/Humanities course | 3 |  |  |  |  |
| Total Semester Credit Hours | 17 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| AUT 180 Automatic Trans./Transaxles | 3 |  |  | Coreq: AUT 181 |  |
| AUT 181 Automatic Trans./Transaxles Lab | 2 |  |  | Coreq: AUT 180 |  |
| AUT 240 Comp. Control Sys. and Diagnosis | 3 |  |  | Coreq: AUT 241 |  |
| AUT 241 Comp. Control Sys. and Diag. Lab | 2 |  |  | Coreq: AUT 240 |  |
| AUT 199 Cooperative Education Program | 1 |  |  |  |  |
| Social/Behavioral Sciences, Natural Sciences, OR Quantitative Reasoning course | 3 |  |  |  |  |
| Digital Literacy course | 0 – 3 |  |  |  |  |
| Total Semester Credit Hours | 14 – 17 |  |  |  |  |
| Total Diploma Credit Hours | 61 – 64 |  |  |  |  |

**Graduation Requirements:**

* 25% or more of Total Diploma Credit Hours must be earned at BCTC.
* Cumulative GPA must be 2.0 or higher.

Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional Information**

The Automotive Technology program is currently on a two-year rotation cycle beginning in Fall 2020 and enrolling new students every other year.

Enrollment into the program is limited. Interested students must contact the Automotive Technology Program Coordinator.

Students cannot enroll in any ADX or AUT course without the permission of the Automotive Technology Program Coordinator.

**Course Rotation Schedule**

|  |  |  |
| --- | --- | --- |
| Course | Fall | Spring |
| ADX 120 and ADX 121 Basic Automotive Electricity and Lab | X |  |
| ADX 150 and ADX 151 Engine Repair and Lab | X |  |
| ADX 170 and ADX 171 Heating and Air Conditioning and Lab | X |  |
| ADX 260 and ADX 261 Electrical systems and Lab | X |  |
| AUT 110 and AUT 111 Brake Systems and Lab |  | X |
| AUT 130 and AUT 131 Manual Drive and Axles and Lab |  | X |
| AUT 140 and AUT 141 Basic Fuel and Ignition Systems and Lab |  | X |
| AUT 142 and AUT 143 Emission Systems and Lab | X |  |
| AUT 160 and AUT 161 Suspension and Steering and Lab  | X |  |
| AUT 180 and AUT 181 Automatic Transmission/Transaxles and Lab |  | X |
| AUT 240 and AUT 241 Computer Control Systems and Diagnosis and Lab |  | X |

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Cr. Hrs. |
| Certificate | Automatic Transmission/ Transaxle Technician | AUT 180, 181 | 5 |
| Certificate | Automotive Air Conditioning Mechanic | ADX 170, 171 | 4 |
| Certificate | Automotive Electrician | ADX 120, 121, 260, 261 | 10 |
| Certificate | Brake Repairer | AUT 110, 111 | 5 |
| Certificate | Engine Repairer | ADX 150, 151 | 5 |
| Certificate | Front End Mechanic | AUT 160, 161 | 5 |
| Certificate | Manual Transmission/ Drive Train Technician | AUT 130, 131 | 5 |
| Certificate | Tune-up Mechanic | ADX 120, 121, 260, 261, AUT 140, 141, 142, 143, 240, 241 | 25 |

**Certificate Requirements:**

* 25% or more of Total Certificate Credit Hours must be earned at BCTC.
* Grade of C or higher in each course required for certificate.

*Reviewed by: Aaron Harlow Effective Term: Fall 2021*

 *Review Date: 02-03-2021*