**Automotive Technology – Automotive Technician**

**Diploma**

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**Program Coordinator: Aaron N. Harlow E-mail:** **aaron.harlow@kctcs.edu** **Phone: 859-246-6774**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/automotive-technology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/automotive-technology.aspx)

**Student Name: Student ID:**

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

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

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

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| **Third Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| AUT 142 Emission Systems | 3 |  |  |  |  |
| AUT 143 Emission Systems Lab | 2 |  |  | Coreq: AUT 143 |  |
| 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** |  |  |  |

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| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| AUT 180 Automatic Transmission/Transaxles | 3 |  |  |  |  |
| AUT 181 Automatic Transmission/Transaxles Lab | 2 |  |  | Coreq: AUT 180 |  |
| AUT 240 Computer Control Systems and Diagnosis | 3 |  |  |  |  |
| AUT 241 Comp Control Systems and Diagnosis Lab | 2 |  |  | Coreq: AUT 241 |  |
| 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** |  |  |  |  |

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| * **25% or more of Total Diploma Credit Hours must be earned at BCTC**
* **Cumulative GPA must be 2.0 or higher**
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**Graduation Requirements:**

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

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| **Additional Information** |
| * The Automotive Technology program is currently on a two-year rotation cycle beginning in Fall 2018 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.
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| **Course Rotation Schedule** |
|  | **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 |

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| **Embedded Credentials** |
| Credential | Title | Requirements | Total Credit Hours |
| 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 |

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