****

**Automotive Technology – Automotive Technician Track**

**Associate in Applied Science degree**

**Program Coordinator: Aaron N. Harlow E-mail:** [**aaron.harlow@kctcs.edu**](mailto: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.***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **First Semester** | **Credit**  **Hours** | **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 |  |
| Quantitative Reasoning course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Second Semester** | **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 Systems Lab | 2 |  |  | Coreq: AUT 140 |  |
| Written Communication course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **18** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Third Semester** | **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 |  |
| Natural Sciences course | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **17** |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fourth Semester** | **Cr. Hrs.** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| AUT 180 Automatic Transmission/Transaxles | 3 |  |  | Coreq: AUT 181 |  |
| AUT 181 Automatic Transmission/Transaxles Lab | 2 |  |  | Coreq: AUT 180 |  |
| AUT 240 Computer Control Systems and Diagnosis | 3 |  |  | Coreq: AUT 241 |  |
| AUT 241 Comp Control Systems and Diagnosis Lab | 2 |  |  | Coreq: AUT 240 |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| Digital Literacy course | 0 – 3 |  |  |  |  |
| **Total Semester Credit Hours** | **16 – 19** |  |  |  |  |
| **Total Degree Credit Hours** | **69 – 72** |  |  |  |  |

|  |
| --- |
| * **25% or more of Total Degree Credit Hours must be earned at BCTC** * **Cumulative GPA must be 2.0 or higher** |

**Graduation Requirements:**

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

|  |
| --- |
| **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. |

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 | |

|  |
| --- |
|  |
|  |

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

**Certificate Requirements:**