[Diesel Technology – Medium & Heavy Truck Technician Track](https://bluegrass.kctcs.edu/education-training/program-finder/diesel-technology.aspx)

Associate in Applied Science

Coordinator: Aaron N. Harlow ([aaron.harlow@kctcs.edu](mailto: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 |
| DIT 103 Preventative Maintenance Lab | 2 |  |  |  |  |
| ADX 120 Basic Automotive Electricity OR  BEX 100 Basic Electricity for Non-Majors | 3 |  |  |  |  |
| ADX 121 Basic Automotive Electricity Lab OR  BEX 101 Basic Elect. Lab for Non-Majors OR  ELT 110 Circuits 1 | 2 |  |  | Coreq: ADX 120 OR  BEX 100 |  |
| DIT 110 Introduction to Diesel Engines OR  ADX 150 Engine Repair | 3 |  |  |  |  |
| DIT 111 Intro. to Diesel Engines Lab OR  ADX 151 Engine Repair Lab | 2 |  |  | Coreq: DIT 110 OR  ADX 150 |  |
| Quantitative Reasoning course | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| FPX 100 Fluid Power Or DIT 140 Hydraulics | 3 |  |  |  |  |
| FPX 101 Fluid Power Lab OR  DIT 141 Hydraulics Lab | 2 |  |  | Coreq: FPX 100 OR  DIT 140 |  |
| DIT 180 Brakes | 3 |  |  |  |  |
| DIT 181 Brakes Lab | 2 |  |  | Coreq: DIT 180 |  |
| DIT 160 Steering and Suspension | 3 |  |  |  |  |
| DIT 161 Steering and Suspension Lab | 2 |  |  | Coreq: DIT 160 |  |
| Written Communication course | 3 |  |  |  |  |
| Total Semester Credit Hours | 18 |  |  |  |  |

Semester 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| DIT 112 Diesel Engine Repair | 3 |  |  |  |  |
| DIT 113 Diesel Engine Repair Lab | 2 |  |  | Coreq: DIT 112 |  |
| ADX 170 Climate Control | 3 |  |  |  |  |
| ADX 171 Climate Control Lab | 1 |  |  | Coreq: ADX 170 |  |
| Digital Literacy course | 3 |  |  |  |  |
| Natural Sciences course | 3 |  |  |  |  |
| Total Semester Credit Hours | 15 |  |  |  |  |

Semester 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Courses | Cr. Hrs. | Term | Grade | Prerequisites | Notes |
| ADX 260 Electrical Systems OR  DIT 190 Elect. Systems for Diesel Equipment | 3 |  |  |  |  |
| ADX 261 Electrical Systems Lab OR  DIT 191 Electrical Systems for Diesel Equipment Lab | 2 |  |  | Coreq: ADX 260 OR DIT 190 |  |
| DIT 150 Powertrains | 3 |  |  |  |  |
| DIT 151 Powertrains Lab | 2 |  |  | Coreq: DIT 150 |  |
| Heritage or Humanities course | 3 |  |  |  |  |
| Social and Behavioral Sciences course | 3 |  |  |  |  |
| Total Semester Credit Hours | 16 |  |  |  |  |
| Total Degree Credit Hours | 64 |  |  |  |  |

**Graduation Requirements:**

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

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

**Additional Information**

* ADX 120/121, DIT 110/111, ADX 260/261 are recommended courses by the Program Coordinator.
* The Diesel Technology program is currently on a two-year rotation cycle beginning in Fall 2019 and enrolling new students every other year.
* Enrollment into the program is limited. Interested students must contact the Diesel Technology Program Coordinator.
* Students cannot enroll in any ADX or DIT course without the permission of the Diesel Technology Program Coordinator.

**Course Rotation Schedule**

|  |  |  |
| --- | --- | --- |
| Course | Fall | Spring |
| DIT 103 Preventative Maintenance Lab | X |  |
| ADX 120 & ADX 121 Basic Automotive Electricity & Lab | X |  |
| DIT 110 & DIT 111 Introduction to Diesel Engines & Lab | X |  |
| FPX 100 and FPX 101 Fluid Power & Lab |  | X |
| DIT 180 & DIT 181 Brakes & Lab |  | X |
| DIT 160 & DIT 161 Steering and Suspension & Lab |  | X |
| DIT 112 & DIT 113 Diesel Engine Repair & Lab | X |  |
| ADX 170 & ADX 171 Climate Control & Lab | X |  |
| ADX 260 & ADX 261 Electrical Systems & Lab |  | X |
| DIT 150 & DIT 151 Powertrains & Lab |  | X |

**Embedded Credentials**

|  |  |  |  |
| --- | --- | --- | --- |
| Credential | Title | Requirements | Total Cr. Hours |
| Certificate | Diesel Engine Mechanic | DIT 110, 111, 112, 113 Electives (Diesel Courses) | 12 |
| Certificate | Diesel Steering & Suspension Mechanic | DIT 160, 161 Electives (Diesel Courses) | 12 |
| Certificate | Heavy Duty Brake Mechanic | DIT 180, 181 Electives (Diesel Courses) | 12 |
| Certificate | Heavy Duty Drive Train Mechanic | DIT 150, 151 Electives (Diesel Courses) | 12 |
| Certificate | Medium & Heavy Truck Mechanic Helper | ADX 120, 121, 260, 261 DIT 110, 111, 112, 113, 160, 161, 180, 181 | 30 |

**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: 03-01-2021*