AUTOMOTIVE TECHNOLOGY (ADX)

ADX 120 (3 credit hours)
Basic Automotive Electricity
Introduces the student to the principles, theories, and concepts of the automotive electrical system that include the unique diagramming, coding and locating of wiring, and component devices. Lecture: 3 credits (45 contact hours).
Co-requisite: ADX 121.
Attributes: Technical
Components: LEC: Lecture

ADX 121 (2 credit hours)
Basic Automotive Electricity Lab
Provides hands-on work designed to allow the student to use the concepts, principles, and theories covered in Basic Automotive Electricity, ADX 120, in practical application. Provides the student a work experience alternating between periods of work off campus and work in a classroom laboratory setting. Lab: 2 credits (90 contact hours).
Co-requisite: ADX 120.
Attributes: Technical
Components: LAB: Laboratory

ADX 150 (3 credit hours)
Engine Repair
Provides a series of lectures and demonstrations on the fundamentals of engine repair, troubleshooting, and engine operation and maintenance. Lecture: 3 credits (45 contact hours).
Attributes: Technical
Components: LEC: Lecture

ADX 151 (2 credit hours)
Engine Repair Lab
Provides practical experiences and applications relating to engine repair, inspection, trouble shooting and maintenance. The student may be provided a work experience alternating between periods of work off campus and work in a classroom laboratory setting. Lab: 2 credits (90 contact hours).
Pre- or co-requisite: ADX 150.
Attributes: Technical
Components: LAB: Laboratory

ADX 170 (3 credit hours)
Climate Control
Introduces the theory and operation of heating and air conditioning systems, air conditioning terminology, and servicing and troubleshooting mechanical and electrical circuits of heating and air conditioning systems. Lecture: 3 credits (45 contact hours).
Co-requisite: ADX 171.
Attributes: Technical
Components: LEC: Lecture

ADX 171 (1 credit hours)
Climate Control Lab
Provides opportunities to trouble shoot, repair and perform maintenance on heating and air conditioning systems. Provides experiences in safety precautions, special tool uses, component operation and how to service and trouble shoot the complete system. The student may be provided a work experience alternating between periods of work off campus and work in a classroom laboratory setting. Lab: 1 credit (45 contact hours).
Co-requisite: ADX 170.
Attributes: Technical
Components: LAB: Laboratory

ADX 260 (3 credit hours)
Electrical Systems
Focuses on the theory and principles relating to automotive electrical/electronic components. Lecture: 3 credits (45 contact hours).
Co-requisite: ADX 261.
Attributes: Technical
Components: LEC: Lecture

ADX 261 (2 credit hours)
Electrical Systems Lab
Provides practical applications and experiences related to the theory and principles of automotive electrical/electronic components. The student may be provided a work experience alternating between periods of work off campus and work in a classroom laboratory setting. Lab: 2 credits (90 contact hours).
Co-requisite: ADX 260.
Attributes: Technical
Components: LAB: Laboratory