

## Transportation, Distribution and Logistics Cluster ([Automotive Technology Academy](#))

### Course: **ADVANCED AUTOMOTIVE TECHNOLOGY**

Course Description: This course includes advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance and diagnosis of vehicle systems. This study allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices. Student must pass safety test with 100% mastery.

NEISD #**8113**      Credit: 2.0      Term: Full Year      Grade Placement: 11-12

Prerequisites: Automotive Technology

#### **Special Notes:**

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### Course: **AUTOMOTIVE TECHNOLOGY-CAMPUS:ATA**

Course Description: This course includes knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance and diagnosis of vehicle systems. This study allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices. Student must pass safety test with 100% mastery.

NEISD #**8112**      Credit: 2.0      Term: Full Year      Grade Placement: 10-12

Prerequisites:

#### **Special Notes:**

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### Course: **ENERGY, POWER AND TRANSPORTATION SYSTEMS**

Course Description: Students will need to understand the interaction between various vehicle systems, the logistics used to move goods and services to consumers and the components of transportation infrastructure. Performance requirements will include academic and technical skills. Students prepared to meet the expectations of employers in this industry must be able to interact and relate to others and understand the technologies used in order to provide products and services in a timely manner.

NEISD #**8103**      Credit: 1.0      Term: Full Year      Grade Placement: 11

Prerequisites:

#### **Special Notes:**

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### Course: **PRACTICUM IN TRANSPORTATION, DISTRIBUTION AND LOGISTICS**

Course Description: The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in the Transportation, Distribution and Logistics cluster. The Practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study or laboratories. Student must pass safety test with 100% mastery.

NEISD #**8114**      Credit: 3.0      Term: Full Year      Grade Placement: 12

Prerequisites:

#### **Special Notes: *Student must provide their own transportation.***