

TRANSPORTATION CLUSTER

T55031 Introduction to Transportation (4798)

Open to grades 9, 10, 11, 12

2 semesters, 1 credits per semester

Approximate cost per semester: TBD

Meets requirements: THD, AHD, Core 40

This is an introductory course designed to help students become familiar with fundamental principles in modes of land, sea, air, and space transportation including basic mechanical skills and processes involved in transportation of people, cargo, and goods. Students gain and apply knowledge and skills in the safe application, design, production, and assessment of products, services, and systems as it relates to the transportation industries. Content of this course includes the study of how transportation impacts individuals, society, and the environment. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant transportation related activities, problems, and settings.

T58012 Automotive Services Technology I (5510)

Open to grades 10, 11, 12

2 semesters, 2 credits per semester

Approximate cost per semester: \$100

Meets requirements: THD, AHD, Core 40

Recommendation(s): Introduction to Transportation

Dual Credit Available

This is a one year course that encompasses the sub topics of the NATEF/ ASE identified areas of Steering & Suspension and Electrical Systems. This one-year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or yearlong instruction. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one year offering must

meet the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation and calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

T58022 Automotive Services Technology II (5546)

Open to grades 11, 12

2 semesters, 2 credits per semester

Approximate cost per semester: \$100

Meets requirements of: THD, AHD, Core 40

Prerequisite: T58012 Automotive Services Technology I

Dual Credit Available

Automotive Services Technology II is a one year course that encompasses the sub topics of the NATEF/ASE identified areas of Electrical Systems and Engine Performance. This one year course offering may be structured in a series of two topics per year offered in any combination of instructional strategies of semester based or year long instruction. Additional areas of manual transmissions and differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one year offering must meet the NATEF program certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring activities and cost estimation/calculation activities. Scientific principles taught and reinforced in this course include the study of viscosity, friction, thermal expansion, and compound solutions. Written and oral skills will also be emphasized to help students communicate with customers, colleagues, and supervisors.

**T58032 Automotive Services
Technology III (5546)**

Open to grade 12

2 semesters, 2 credits per semester

Approximate cost per semester: \$100

Meets requirements: THD, AHD, Core 40

**Prerequisite: Automotive Services
Technology II**

This program is designed for third year Automotive Technology students. Students must have met the program standards and maintained a grade of C or above in the first and second year of the Automotive Technology course sequence before they are eligible for advanced placement positions with community partner sites.