

TRANSPORTATION

T5503 I Introduction to Transportation (4798)

Open to grades 9-12

2 semesters, 1 credit per semester

Meets requirements of: THD, AHD, Core 40

Dual Credit may be available

Introduction to Transportation 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 will gain and apply knowledge and skills in the safe application, design, production, and assessment of products, services, and systems relating 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.

**Note: Students who take Year I Auto at East will take Year II at North.
Students who take Year I Auto at North will take Year II at East.**

T6821 I & T6822 I Automotive Services Technology I & Principles (7213 & 7205)

Must take both concurrently

Open to grades 10-12

2 semesters, 2 credits per semester

Meets requirements of: AHD, THD, CORE 40

Recommendation(s): Introduction to Transportation

Dual Credit may be available

Automotive Services Technology I is a one-year course that encompasses the sub topics of the ASE identified areas of Steering & Suspension, Electricity, and HVAC. 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, and engine repair shall be covered as time permits. The course meets the ASE program certifications for the two primary areas offered. This course provides the opportunity for dual credit for students who meet postsecondary requirements and successfully complete the dual credit requirements. Mathematical skills will be reinforced through precision measuring and cost estimation activities. Scientific principles taught 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.

T6823 I & T6824 I Automotive Services Technology II & Capstone (7212 & 7375)

Must take both concurrently

Open to grades 11-12

2 semesters, 2 credits per semester

Meets requirements of: AHD, THD, CORE 40

Prerequisite(s): Automotive Services Technology I & Principles

Dual Credit may be available

Automotive Services Technology II is a one-year course that encompasses the sub topics of the ASE identified areas of Braking 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 yearlong instruction. Additional areas of manual transmissions /differentials, automatic transmissions, air conditioning, and engine repair should be covered as time permits. This one-year offering must meet the ASE program

certifications for the two primary areas offered in this course. Mathematical skills will be reinforced through precision measuring and cost estimation activities. Scientific principles taught 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.