

TRANSPORTATION SERVICES -CORE (TSTC)

Courses

TSTC 100 Introduction to Transportation Services 2 Credits

Introduction to procedures, tool usage, basic shop safety, basic employment skills, job documentation, and equipment usage.

Terms Typically Offered: Fall, Spring.

Fees: Yes.

TSTC 101 Vehicle Service and Inspection 3 Credits

Introduction to vehicle systems, maintenance, inspection, internal combustion engine theory, systems diagnosis, fundamentals, and evaluation. Service of the vehicle systems with emphasis on inspection and observation.

Terms Typically Offered: Fall, Spring.

Fees: Yes.

TSTC 130 Electrical I 2 Credits

Introduction to electrical theory, circuits, components, testing, and use of test equipment.

Prerequisites: TSTC 100 and TSTC 101.

Terms Typically Offered: Fall.

Fees: Yes.

TSTC 160 Electrical II 2 Credits

Study of electronic control systems applied to today's modern vehicles. Emphasis on sensors, actuators, and diagnostic techniques.

Prerequisites: TSTC 100, TSTC 101, and TSTC 130 (TSTC 130 may be taken concurrently).

Terms Typically Offered: Spring.

Fees: Yes.

TSTC 170 Chassis Fundamentals 2 Credits

Introduction to front and rear suspension systems, including: steering front end geometry, maintenance, light repair, and component nomenclature.

Prerequisites: TSTC 100 and TSTC 101.

Terms Typically Offered: Fall.

Fees: Yes.

TSTC 171 Brakes I 2 Credits

Theory, components, general repair practices, and diagnosis of current brake systems.

Prerequisites: TSTC 100 and TSTC 101.

Terms Typically Offered: Fall.

Fees: Yes.

TSTC 195 Independent Study 1-3 Credits

Course may be taken multiple times up to maximum of 6 credit hours.