

8419 Automotive Basics

Credit: 1

Prerequisite: None

Are you interested in exploring a career in the high-paying automotive industry? If so, begin your journey with this course that provides a basic understanding of safety, automotive careers, automotive systems and the Automotive Service Excellence (ASE) technician's certification process. Students will gain knowledge and skills in the repair, maintenance, and servicing 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 safety, tool identification, proper tool use, and employability. Completion of S/P2 safety certification is required during the first grading period to participate and advance in this course.

8420 Automotive Technology I: Maintenance & Light Repair

Credit: 2

Prerequisite: Energy and Power of Transportation Systems; Automotive Basics for 20-21 cohort; Student must complete an interest form for enrollment and attend information meeting with instructor. This is the second course in the sequence and allows students the opportunity to practice safety, theory, diagnosis and repair in the areas of brakes, steering and suspension, electrical, and engine performance. The course is one step in preparing students for college and automotive manufacturer's training and automotive industry certification that is taught by an ASE certified instructor. Job shadowing may be included. Be prepared to and possibly participate in the Automotive Service Excellence certification exam in Brakes, Suspension and Steering, Electrical/Electronic Systems and Engine Performance. If the student is involved in a job shadowing experience, transportation to and from the training site is the responsibility of the student. Course taught at LCHS only, but available to students at all LCISD high schools. Enrollment is limited. Transportation provided to and from class. Completion of SP2 safety certification is required to participate and advance in this course.

Automotive Technology I: Maintenance & Light Repair – Dual

8420AD (Fall)

8420WD (Fall) for Cohort 2022

8420BD (Spring)

8420XD (Spring) for Cohort 2022

Credit: 2

Prerequisite: Energy and Power of Transportation Systems; Automotive Basics for 20-21 cohort; See College for requirements. Course offered in conjunction with TSTC, see above for course description. Course taught at LCHS only, but available to students at all LCISD high schools. Enrollment is limited. Student must complete TSTC orientation process. Student must complete TSTC online application; provide Permit to Register, and transcripts. See TSTC for additional enrollment and orientation process requirements. This course is taken as part of the TSTC dual credit pathway for Diesel Equipment Technology. *Not all Dual Credit courses are offered at all campuses. This course is not eligible for semester exam exemptions. Completion of SP2 safety certification is required to participate and advance in this course.

8430C Automotive Technology II: Automotive Service

Credit: 2

Prerequisite: Automotive Technology I: Student must complete an interest form for enrollment and attend a meeting with the instructor. This course is designed for students who are planning a career in the automotive industry. This course allows students the opportunities to practice advanced theory, diagnosis and repair in the areas of brakes, steering and suspension, electrical, and engine performance. Students will solve automotive problems and prepare for post-secondary training and/or automotive industry certification and is taught by an ASE certified instructor. Students will be prepared to and possibly participate in the Automotive Service Excellence-ASE certification exam in Brakes, Suspension and Steering, Electrical/Electronic Systems and Engine Performance. If the student is involved in a job shadowing experience, transportation to and from the training site is the responsibility of the student. Course taught at LCHS only, but available to students at all LCISD high schools. Transportation provided. Enrollment is limited. This course can earn college credit based on Articulation agreements, which are subject to change. Completion of SP2 safety certification is required to participate and advance in this course.

Automotive Technology II: Automotive Service - Dual

8430AD (Fall)

8430BD (Spring)

Credit: 2

Prerequisite: Automotive Technology I: Maintenance & Light Repair Dual
See College for requirements. Course offered in conjunction with TSTC, see above for course description. Course taught at LCHS only, but available to students at all LCISD high schools. Enrollment is limited. Student must complete TSTC orientation process. Student must complete TSTC online application; provide Permit to Register, and transcripts. See TSTC for additional enrollment and orientation process requirements. This course is taken as part of the TSTC dual credit pathway for Diesel Equipment Technology. *Not all Dual Credit courses are offered at all campuses. This course is not eligible for semester exam exemptions. Completion of SP2 safety certification is required to participate and advance in this course.

8440C Practicum in Transportation Systems

Credit: 2

Prerequisite: Automotive Technology I: Maintenance & Light Repair; or Automotive Technology II: Automotive Services; AYES process completed and approved. Student must complete an interest form for enrollment and attend a meeting with the instructor. Students will participate in a teacher-approved, previously determined AYES training station (onsite or offsite, paid or unpaid) for continuation in this course, must be a minimum age of 16, and hold a valid work documentation to enroll in this paid practicum experience working at least 10 hours per week. Transportation to and from the AYES/job training site is the responsibility of the student. Workplace visits required by teacher of record every 6 weeks. Training station evaluation will count as 30% of the student's grade. Advanced, selected students, who are seeking a career in the automotive industry, will have the opportunity to practice advanced diagnosis and repair in the areas of brakes, steering and suspension, electrical, and engine performance in this class taught by an ASE certified instructor. Select students will be able to participate in on-the-job training allowing them to work with a mentor in an automotive dealership. Students will be prepared to and expected to complete an Automotive Service Excellence certification exam. Course taught at LCHS only, but available to students at all LCISD high schools. Transportation provided. This course can earn college

credit based on Articulation agreements which are subject to change. Completion of SP2 safety certification is required to participate and advance in this course.

8440CE Practicum in Transportation Systems - Extended

Credit: 3

Prerequisites: Automotive Technology I: Maintenance & Light Repair; or Automotive Technology II: Automotive Services AYES process completed and approved.

Student must complete an interest form for enrollment and attend a meeting with the instructor. Extended is for students who work a minimum of 15 hours a week in a teacher-approved training station (paid or unpaid off site) for continuation in this course, must be a minimum age of 16 and hold a valid work documentation to enroll in a paid practicum experience. Transportation to and from the training station is the responsibility of the student.

Workplace visits required by teacher of record every 6 weeks. Training station evaluation will count as 30% of the student's grade.

This course completes the coherent sequence in the field of Transportation Systems. This occupationally specific course is designed to provide classroom technical instruction and on-the-job training experiences. Students will work on fine tuning their Transportation Systems skills, safety, work ethics, and job-related study in the classroom. Instructor will provide industry standard training. Industry certification testing is offered to all students meeting testing requirement; see teacher for details. Completion of SP2 safety certification is required to participate and advance in this course.