

AUTOMOTIVE TECHNOLOGY



This program covers the four National Institute for Automotive Service Excellence requirements for training in auto service and brakes. Basic shop procedures and introduction to steering and suspension is also provided. Students must have a valid driver's license in order to operate vehicles in the lab. If college level work is attained, student may earn up to 9 LCC credits.

Program Location:

LCC West Campus

Session Offered: AM/PM

Average Lecture Days/Week: 2-3 days

Average Lab Days/Week: 2-3 days

Homework: Weekly

Required reading:

College level textbooks

Workbooks

Less than 25 pages/week

LCC Credits Available: 9

(If college level work is attained)

Student learning outcomes include but are not limited to:

- Safety in the work environment
- Engine maintenance and diagnostics operations
- Service management
- Hydraulic system diagnosis and repair
- Drum brake diagnosis and repair
- Disc brake diagnosis and repair
- Power assist units
- Wheel bearings, parking brakes, and electrical components
- Standard and anti-lock brake system diagnosis and repair
- Suspension systems diagnosis and repair
- Front and rear suspensions
- Wheel alignment diagnosis, adjustment and repair
- Wheel and tire diagnosis and repair

HIGH SCHOOL/COLLEGE CREDIT

The primary focus of the Eaton Intermediate School District Career Preparation Center is to enhance a student's high school curriculum by providing an opportunity to learn a technical trade and/or to obtain a head start on a post-secondary education.

All students completing an Eaton Intermediate School District's Career Center program at Lansing Community College **have the opportunity** to earn either direct or articulated college credit while completing their high school program if specific criteria are met.

LCC credit is awarded to a student who: a) completes the high school career and technical education course with a minimum of a "C" average; b) meets the performance objectives for a specific Lansing Community College course; and, c) passes the college course final examinations, if one is required. These credits are shown as numerical grades on the student's LCC transcript. Transcripts may be requested through Lansing Community College Enrollment Services Department by August following course completion.

The courses listed below show the possible LCC college credits that may be available to high school students taking an EISD Career Preparation Program.

AUTOMOTIVE TECHNOLOGY

Students will have the opportunity to receive NATEF (National Automotive Technician's Education Foundation) certified training and college credit in the following areas.

AUTO 100 Automotive Service I 3 LCC Credits
This course is intended to provide the student with an extensive orientation to an automotive repair facility, while developing tool and equipment usage skills needed to advance in the automotive repair field.

AUTO 140 Automotive Brakes 3 LCC Credits
This course covers servicing drum and disc brakes; including adjustment, shoe replacement, drum and disc machining, pad replacement, and hydraulic system service. Included is the basic theory and service of anti-lock brakes and traction control.

AUTO 150 Automotive Steering & Suspension 3 LCC Credits
This course covers automotive front end alignments and how steering and suspension systems work. Students will diagnose, repair and align steering and suspension systems according to National Automotive Technicians Education Foundation (NATEF) standards.