AUTO 1039

Division: Career and Technical Education
Department: Automotive Technology
Course: AUTO 1039
Title: Automotive Technology III
Catalog Description:

This course helps students understand and use work orders and calculate labor amounts, parts, and flat rate charges. Students shall also gain experience doing a variety of automotive repairs. This course may be repeated for a maximum of six credits.

General Education Requirements: N/A
Semesters Offered: TBA
Credit/Time Requirement: Credit: 2; Lecture: 0; Lab: 5
Clock/Hour Requirements: 75
Offered for Non-Credit: No
Credit/Clock Comments: This is a variable credit course (2-6: 0: 5-15).
Prerequisites: None

Corequisites: None

Justification:

This course will better prepare students to work in an automotive shop and is approved by the program advisory committee.

Student Learning Outcomes:

Upon successful completion of this course, students will be able to:

- look up and calculate flat rate
- correctly fill out work orders showing sales tax calculation
- repair many different types of automotive malfunctions.

Content:

Course objectives will be accomplished by students doing necessary repair work on autos in the automotive shop.

General Education Outcomes:

3) Speak effectively in a variety of contexts.

Students are required to communicate about repair and maintenance issues to customers. Strategies for communicating with customers are emphasized.

4) Retrieve, evaluate, interpret, and deliver information through a variety of traditional and electronic media.

Students will utilize electronic and written reference manuals and computer diagnostics to identify, troubleshoot, and repair engines, transmissions, brakes, and other vehicle components.

6) Apply computational skills to a variety of contexts.

Students are required to perform mathematic computations with regard to electrical systems, gear ratios, force pressures, and a variety of other vehicle systems. Familiarity with the binary numbering system and computer generated matrices is emphasized.

Key Performance Indicators:

In class:

- Students are tested orally on an ongoing basis, based on a performance vs. time equation for 100% of grade. Shop tasks will be monitored as to the professional manner in which they were completed. Students will be required to complete a specified amount of flat rate repair work for a grade.

Following class:

- Course evaluation will be demonstrated by the following methods:
  - student performance in subsequent courses
  - student performance on the job after training.

Representative Text and/or Supplies:

- Instructional materials as directed by instructor

Optimum Class Size: 10
Maximum Class Size: 18

Signatures:

I hereby submit this course syllabus:

Brent Reese, BS, Associate Professor

I hereby find this course consistent with the goals and resources of the Automotive Technology Department:

Brent Reese, BS, Associate Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)