



# Wayne County Community College District

## COURSE SYLLABUS

### AUT 150 Introduction to Alternative Fuels

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**CREDIT HOURS:** 4.00

**CONTACT HOURS:** 60.00

**COURSE DESCRIPTION:**

Students will use various sources in the alternative fueled vehicle industry to learn what alternative fuels are available, which include an overview of alternative fuel engine technology, compressed natural gas technology, electronic diagnostic and integration methods, system specific electronics, emission testing, cylinder inspection, and driver orientation/safety/ vehicle inspection.

**PREREQUISITES:** AUT 117

**EXPECTED COMPETENCIES:**

Upon successful completion of this course, the student will:

- Differentiate between traditional and "alternative" fuel.
- Identify and describe fuels classified as "alternative" to gasoline.
- Explain the origin, manufacture and use of alternative fuels.
- Relate specific alternative fuels to their appropriate application.
- Identify and describe alternative fuel processing and fuel combining technologies.
- Locate and utilize current information on research, invention, and innovation.

**ASSESSMENT METHODS:**

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**

90%-100% = A

80%-89.9%= B

70%-79.9%= C

60%-69.9%= D

<60% = E