



Wayne County Community College District

COURSE SYLLABUS

RET 101 Renewable Energy Principles

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

This course will cover basic principles and history of conventional energy and alternative energy sources. Industry and government status of geothermal, wind, solar, biomass, fuel cells and other energy sources will be highlighted. Alternative and traditional energies will be defined and compared in terms of today's use. The evolving energy career areas will be discussed.

PREREQUISITE: None

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be able to:

- Understand basic alternative energy sources.
- Analyze and evaluate the growth of alternative energies.
- Be familiar with geothermal, wind, solar, biomass and fuel cell technologies.
- Illustrate how traditional and alternative energies are utilized.
- Identify the evolving career paths in alternative energy.
- Describe the functions of an energy specialist and energy engineer.

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