



Wayne County Community College District

COURSE SYLLABUS

LRT 101 Rail Transportation and Railroad Careers

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION: This introductory course covers the history of rail development and operations in the North America and an exploration of railroad careers to assist students in choosing a suitable career path. Included in the course are discussions of the economic impact of rail transportation, the various modes of rail transportation (passenger and freight), and the political reality of the industry. Local field trips to rail and light rail settings are an important part of the class structure.

PREREQUISITES: None

EXPECTED COMPETENCIES:

Upon completion of this course, the student will be familiar with:

- Describe the significant historical events in railroad and light rail development.
- Describe various types of rail operations for freight and passenger travel.
- Describe the basic components of rail locomotives, rail cars and light rail cars.
- Explain the fundamental business principles used in the railway industry and how the business is measured from the economic perspective.
- Explain how technology has influenced the rail industry and describe future trends in rail and light rail development.
- Explain the rights and responsibilities of management, unions, employees and regulatory bodies in the rail industry.
- Identify career opportunities and various functions of each position in the light rail industry and railroad business where there is an opportunity for employment.

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