



Wayne County Community College District

COURSE SYLLABUS

WET 210 Advanced Waste Water Treatment Technologies

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

Discusses wastewater treatment technologies beyond conventional processes. Includes the processes and techniques commonly used for advanced wastewater treatment, disinfection, solids stabilization and disposal, nutrient reduction and toxics removal. Includes field tours and discussion of safety and health, sampling procedures, record keeping, data preparation and report writing, and analytical procedures used to determine optimal plant operation and compliance with regulatory requirement.

PREREQUISITES: NONE

EXPECTED COMPETENCIES:

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

- Understand basic and advanced wastewater treatment processes
- Understand the basics of equipment used in wastewater treatment
- Understand troubleshooting procedures
- Understand the physical, chemical and biological aspects of wastewater treatment
- Understand the goals of process optimization
- Understand key operational issues, safety, efficiency & teamwork

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