

Syllabus WMT 120

Instructor: David Moore

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Text: Chemistry for Operators
Microbiology for Sanitary Engineers

Course Description: Chemistry and microbiology are important aspects in water and wastewater treatment. This course will give the student an understanding of water quality testing and the lab procedures used.

Objectives: The main objective is to acquaint the student with water quality testing and controls.

Note to Students: If you have a disability that might require special materials, services or assistance, please discuss this with the instructor during or following the first class.

Requirements:

- A. Required Reading assignments
- B. Review questions
- C. Participation
- D. Two quizzes
- E. Research Paper
- F. Presentation
- G. Midterm
- H. Final

Class Schedule:

Week One	Introduction Read Ch. 1 (C)
Week Two	Ch. 1 & 2 Discussion
Week Three	Ch. 3 & 4 Discussion
Week Four	Ch. 5 & 6 Discussion Quiz Ch 1-4
Week Five	Ch. 7 & 8 Discussion
Week Six	Field Trip WWTP

Week Seven	Discussion on Ch. 9 & WWTP Field Trip Review for Mid-Term
Week Eight	Mid-Term Read Ch. 10 & 11
Week Nine	Ch. 10 & 11 Discussion Read Ch. 12 & 13
Week Ten	Ch. 12 & 13 Discussion
Week Eleven	Quiz Ch. 10-13 Ch. 1 & 2 (Micro)
Week Twelve	Ch. 3, 4, 5 & 6
Week Thirteen	Quiz 1 – 6 Micro Ch 14, 15, 16, 20
Week Fourteen	No Class (Nov. 20)
Week Fifteen	Speaker Ch. 21, 22, 23
Week Sixteen	Field Trip
Week Seventeen	Research Paper Due Presentations Review for Final
Final Exam	Dec 18

Research Paper:

- A. Topics will be given out week 3
- B. Double spaced size 12 times new roman font
- C. 5 pages
- D. bibliography and cover page

Presentation:

- A. 10 minutes
- B. one visual aid

Grading: Grades will be derived from a combination of review questions, research paper, presentation, two quizzes, midterm exam and final exam.

- 1. Assignments
 - B. Research Paper 50 points
 - C. Presentation 50 points
- 2. Tests
 - A. Quiz 1 50 points
 - B. Quiz 2 50 points
 - C. Midterm Exam 100 points
 - D. Final Exam 100 points

Total Points 400 Points