

**PTRT 1309  
Corrosion Basics**

**Western Texas College**

- I. Basic Course Information
  - A. Principles of corrosion as it applied to oil and gas industries.
  - B. Addresses the deterioration of materials, devices, and pieces of oil field (or other) machinery/equipment.
  - C. Emphasis on terminology associated with metallic and nonmetallic corrosion
- II. Student Learning Outcomes
  - A. Distinguish between the causes of corrosion
  - B. State methods by which corrosion can be identified, monitored, and controlled
  - C. Describe potential field problems and select the most reliable solutions
- III. Major Course Requirements
  - A. Homework
  - B. Research Reports
  - C. Quizzes / Test(s) / Final Exam.
- IV. Information on Books and Other Course Materials
  - A. Corrosion Control in Petroleum Production, NACE International, 1999. (available in College Bookstore)
- V. Other Policies, Procedures and Important Dates are available in the [catalog](#).
- VI. Course Organization and Schedule  
Disclaimer: Schedule and content is subject to change at the instructor's discretion.
- VII. Grading

Homework	50%
Research Reports	20%
Quizzes / Test(s) / Final Exam	30%

VIII. Weekly Schedule

<b>WEEK NUMBER</b>	<b>SECTION / ONLINE WORK</b>
Chapter 1	Introduction to corrosion Corrosion Control
Chapter 2	Corrosion basics
Chapter 3	Forms of corrosion (part 1) Forms of corrosion (part 2) Test 1

Chapter 4	Material selection - metals
Chapter 5	Material selection - nonmetallics
Chapter 6	Corrosion detection & monitoring Methods of corrosion control
Chapter 7	Cathodic protection (part 1) Cathodic protection (part 2)
Chapter 8	Economic benefits of corrosion protection Corrosion Report Due Review Final Exam Week

Last Modified: August 29, 2016