

EVT 1000—Introduction to Environmental Engineering Technology
Three Semester Hours

JN
10/12

PREREQUISITES:

Recommend general chemistry, algebra, and calculus

COURSE OVERVIEW:

Topics include toxicology, air pollution, groundwater contamination, transportation of hazardous materials, waste characterization, waste management, and waste treatment and disposal, with discussion of how regulations affect each.

METHODS OF COURSE INSTRUCTION:

All material for this course is print-based. Instructor and students communicate and exchange materials through postal mail. You may submit your assignments as e-mail attachments, but your graded assignments will be returned to you by postal mail.

E-PRINT OPTION:

In this course, an option exists to use e-mail to submit your lesson assignments. Your assignment will be returned to you either as an e-mail attachment or as a hard copy sent through the postal mail, depending on the preferences of the instructor and/or program.

TEXTBOOKS AND SUPPLIES:

Mines, Richard O. and Laura W. Lackey. *Introduction to Environmental Engineering*. Prentice-Hall, 2009. [ISBN: 9780132347471]

Other: You will need a hand-held calculator for both the lesson assignments and the examinations. The Casio FX260SLR scientific calculator, or an equivalent model, is recommended.

NUMBER OF LESSONS:

The course has ten lessons, including a midcourse examination and final examination. These lessons include:

- Lesson 1: Introduction to Environmental Engineering
- Lesson 2: Introduction to Environmental Engineering Calculations: Dimensions, Units, and Conversions
- Lesson 3: Air Pollution
- Lesson 4: Essential Chemical Concepts
- Lesson 5: Midcourse Examination
- Lesson 6: Fundamentals of Hazardous Waste Site Remediation
- Lesson 7: Introduction to Solid Waste Management
- Lesson 8: Risk Assessment

- Lesson 9: Sustainability and Green Development
- Lesson 10: Final Examination

TYPES OF WRITING ASSIGNMENTS:

The writing assignments in Lessons 1–4 and 6–9 consist of short-answer questions that require you to define a term or identify a concept, and problems that require you to use calculation and problem-solving skills. All assignments have clear directions in each lesson. Please note: for **all calculation and problem-solving assignments**, you must show work. Each assignment is submitted to your instructor for evaluation and grading.

GRADING CRITERIA:

Your final grade for the course will be weighted on the following factors:

Lesson Assignments	20%
Midcourse Exam	30%
Final Exam	50%