EVT 2500—Analysis of Environmental Pollutants
Three Semester Hours

PREREQUISITES:
Recommend general chemistry, physics, algebra, and calculus

COURSE DESCRIPTION:
Covers important techniques necessary for analyzing environmental samples. Methods established by EPA are used to analyze samples for heavy metals, volatiles, and semi-volatiles.

METHODS OF COURSE INSTRUCTION:
All material for this course is print-based. Instructor and students communicate and exchange materials through 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:

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 eight lessons complete with graded assignments and two supervised course examinations. The lessons are as follows:
- Lesson 1: Introduction to Chemical Analysis
- Lesson 2: Safety and Laboratory Work
- Lesson 3: Quality Assurance of Chemical Measurements
- Lesson 4: Laboratory Apparatus and Glassware
- Lesson 5: Midcourse Examination
- Lesson 6: Chemicals, Reagents, and Standards in Lab Work
- Lesson 7: Common Chemical Laboratory Techniques
- Lesson 8: Gravimetric Methods of Analysis
- Lesson 9: Titrimetric Analysis of Chemicals
- 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.

For this course, there are two supervised exams—a midcourse and a final. You will have two hours to complete each exam. The exams are comprehensive, fill-in-the-blank, calculation, and problem-solving questions. All work must be shown on the calculation and problem-solving parts of the exam. Specific information about each examination and the form necessary to schedule the examination with a supervisor is included in Lessons 5 and 10.

GRADING CRITERIA:

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

- Lesson/Lab Assignments: 30%
- Midcourse Exam: 30%
- Final Exam: 40%