EVEN 4100 Environmental Sampling and Analysis is a three-credit lecture and laboratory course in which you will be introduced to the basics of characterization of sites contaminated by hazardous waste. What you learn in EVEN 4100 should be useful for starting a career in environmental consulting.

The lectures will cover procedures and techniques for characterization of hazardous waste sites. The lectures will be supplemented by background readings. The lectures and readings will be available on the course web site on the Schedule and Extra Readings pages. Most of the lectures will be given by the course instructors, and some will be given by guest lecturers with expertise in particular areas. The lectures will include instruction of the Hazardous Waste Operations and Emergency Response (HAZWOPER) curriculum for certification.

The laboratory sessions will provide hands-on experience with field sampling and laboratory analysis techniques. Some of the lab sessions will be conducted in the field guided by the course instructors and, in some cases, by guests. Some of the lab sessions will involve analytic work. Some of the lab activities will be completed as teams, and some will be completed individually.

1. Understand the basic procedures and techniques of environmental site assessment;
2. Learn hands-on skills for environmental site assessment;
3. Develop team work techniques;
4. Improve writing skills for technical reports; and
5. Obtain certification for HAZWOPER.

To take EVEN 4100, you need to have taken CVEN 4404 Water Chemistry and CVEN 3313 Theoretical Fluid Mechanics. If you have taken the equivalents of these courses, you may request instructor permission to register.

In the past, EVEN 4100 has been taught by adjunct instructors currently working in the field of environmental consulting. These instructors brought first-hand knowledge to the course. My experience in environmental consulting dates back about two decades now, but to keep the course up to date, I will be drawing upon numerous guest lecturers and field experts.

Lectures, laboratory assignments, and extra materials will be posted on this web site. Lectures will be available as Microsoft PowerPoint files on the Schedule page by the morning of each class (if all
goes right with my schedule!). They can be viewed, printed for class, or downloaded for studying.

I'll use email for general notices, changes in assignments, and time-sensitive changes in schedule. Please pay attention to email before laboratories.

**Numerical Grading**

**Laboratory Assignments** (18 points total)

*Number:* six, 3 point each  
*Format:* responses to questions in laboratory assignments  
*Due Dates:* usually one week after the laboratory period  
*Collaboration:* To be specified for each assignment – some submitted individually, some submitted as teams (~3-4 people)  
*Grading:* by instructors (3 complete, accurate, and thorough; 2 complete, mostly accurate and thorough; 1 incomplete or largely inaccurate; 0 not submitted on time)

**Site Assessment Plan Presentation** (3 points total)

*Number:* one, 5 points  
*Format:* technical presentation – details to be provided – length 20 min  
*Due Date:* Last two lectures  
*Collaboration:* team (~3-4 people) effort.  
*Grading:* instructors – details to be provided

**Site Assessment Plan Report** (15 points total)

*Number:* one, 15 points  
*Format:* technical report – details to be provided – length 15 pages  
*Due Date:* Last lecture period  
*Collaboration:* team (~3-4 people) effort.  
*Grading:* instructors – details to be provided

**Letter Grading**  

Letter grades will be assigned on the basis of this scale:  
A: complete or near-complete mastery of the course material, completion of all assignments, and consistent participation in class  
B: thorough understanding of the course material, completion of all assignments, and consistent participation in class  
C: insufficient understanding of the course material, one or two incomplete assignments, or lack of participation in class.  
D: poor understanding of the course material, three or four incomplete assignments, or lack of participation in class.  
F: no understanding of the course material, five or more incomplete assignments, or frequent (unexcused) absence from class.

**University Policies**

Students with disabilities will be accommodated in class following [University policy](#).

Students with conflicts between religious observance dates and course examinations or assignments may request a change in the course schedule following [University policy](#).

Inappropriate and disruptive class room behavior will be dealt with following [University policy](#).
Breaches of academic integrity will be dealt with following University policy.

Discrimination or sexual harassment will be addressed following University policy.

Instructors

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