ENVS 302 — Phase I Environmental Site Assessment
Courses Syllabus: Fall, 2015

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Office Hours: Online
8:00–5:00 M to F

Required Text:

Course Description:
Introduce the principle and method for Phase I Environmental Site Assessments; culture students’ practical ability to conduct Phase I Environmental Site Assessments.

Instructional Method:
Students do Phase I Environmental Site Assessments and write the final reports.

Course Objective:
Upon completion of this course, you will be able to:
1. conduct a Phase I Environmental Site Assessment;
2. present the results of Phase I Environmental Site Assessment in a professional written report.

Evaluation:
Finish two reports and submit to dropbox on time (500 points total):
A ≥ 90% B ≥ 80% C ≥ 70% D ≥ 60% F < 60%
The first report must be turned into dropbox before 5 pm on October 23, 2015. Feedback will be given to the first report which can be applied to improve the second report. The second report must be submitted before 5 pm on December 11, 2015. Late reports will receive a “C” or less.
Grades will depend on:
1. Quality and thoroughness of the investigations;
2. Quality, thoroughness, and professional appearance of the ESA reports.

How To Proceed in this Course:
1. Read the book and the assignments in each unit completely, from which you can get basic ideas about how to conduct Phase I ESA and how to write final reports.

2. Phase I ESA will be conducted on two sites during the semester. You must select two project sites by yourself. These sites should be unoccupied properties. Sites are typically abandoned commercial operations, such as old gas stations, restaurants, laundries, etc.

3. Get permission from the site owner, operator, manager, or managing real estate company before you begin the investigation. Then have them sign a permit paper and email this in to the instructor before you start. Completely explain to the appropriate person why you want to investigate; the findings will not be used for any legal or financial procedure. Otherwise, the owners may be upset with us. Also, we do not want anything bad happens to the students because of this course. If you have trouble in getting permission, select a different site. Investigations take a lot of time. So do not wait until the last minute.
4. During the investigation, you need to determine all of the past uses of the property and the adjacent properties, all the past owners, any hazardous chemicals that were used or may have been used on the property and on adjacent properties, and the potential for such contaminants to migrate within the subsurface of the property. Your investigation and report may include but not limited to (when possible):

(1) Historic and current use of property and Information of environmental settings
   (a) A title search, who own it now, who once owned it, when, how long ...back to 1940;
   (b) Previous environmental assessment record, if applicable;
   (c) Building permits;
   (d) Street directory and zoning records;
   (e) Visits to regulatory agency, such as the fire department, EPA and city offices, that may have record of any hazardous chemicals used on the property or on adjacent properties;
   (f) A aerial photos of the site;
   (g) Property sketch;
   (h) Proximity to population centers; environmentally sensitive areas, etc.
   (i) A topographic map which may be obtained from United States Geological Survey (USGS);
   (j) Sanborn maps, if possible;
   (k) A description of the site’s geology, such as soil and rock type, native plants, etc. Information may be gotten from U.S. Department of Agriculture soil survey maps;
   (l) A description of the site’s hydrology, such as the depth, flow rate, directions of groundwater, information may be gotten from well driller, well maps, soil survey maps and state agency.

(2) Complete description of your site visits and take photographs of items of interest. Site visit provides an opportunity to get more information. An inspection of all aspects of the property, such as exterior site conditions and inside of the building. There are many things to look for, depending on the nature of your site:
   (a) Type or condition of vegetation, areas where grass doesn’t grow because of chemical pollution;
   (b) Drain pipes sticking out the back of buildings;
   (c) Gullies; pools, or lagoons;
   (d) Dead critters;
   (e) Pipes sticking out of the ground;
   (f) Underground storage tanks;
   (g) Stained curbs around the property;
   (h) Hauled-in dirt or gravel;
   (i) Mounds where something may be buried;
   (j) Odors
   (k) Wells including dry wells, irrigation wells, abandoned wells...
   (l) Transformers and old light ballasts may suggest the presence of polychlorinated biphenyl (PCBs);
   (m) Waste water and other liquid discharges from the site;
   (n) Any other unusual or unnatural features you might observe.

(3) Interviews with the previous and present owner of the property, with owners of adjacent properties, and with neighbors and/or long-term employers to get further information of the sites. Interviews may be conducted prior or during site visit. Always document names, relevance to the property, time, date, form of communication, etc. Questions depend on the characteristics of the sites which may be related to:
   (a) History of the site;
   (b) Nature of the site;
   (c) Waste disposal practices;
   (d) Past environmental emergencies, etc.
5. **Record everything** you do in a “diary” and **turn it in with your report**: when and where you do all of the above, who you talk to, a summary of the information, or if it failed to discover any information.

6. Follow the guidelines of the textbook and submit the assignments on time.

7. Other things need to keep in mind: due dates; try your best to do investigations then you will not have “no data available”; share the sources of information with your classmates and save them for future use; grades depend on the quality, thoroughness of the investigations and presentation of final reports (professional looking, tidy, nice format, etc).

**Helpful Resources**

**Property Assessors:**
- Collin County: [http://www.collincad.org/](http://www.collincad.org/)
- Dallas County: [http://www.dallascad.org/](http://www.dallascad.org/)
- Tarrant County: [http://www.tad.org/](http://www.tad.org/)
- Denton County: [http://www.dentoncad.com/](http://www.dentoncad.com/)

**Maps:**
- Bing.com (use aerial view)
- Topo Maps:
- FEMA: [http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1](http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1)
- TCEQ Central Registry: [http://www12.tceq.state.tx.us/crpub/](http://www12.tceq.state.tx.us/crpub/)
- TX Railroad Commission: [http://gis2.rrc.state.tx.us/public/](http://gis2.rrc.state.tx.us/public/)
- Coastal Barrier Unit Maps: [http://projects.dewberry.com/FWS/CBRS%20Maps/Forms/AllItems1.aspx](http://projects.dewberry.com/FWS/CBRS%20Maps/Forms/AllItems1.aspx)
Regulatory:
EPA: http://www.epa.gov/lawsregs/
CFR Title 40-Protection of Environment: http://ecfr.gpoaccess.gov/cgi/t/text-text-idx?c=ecfr&tpl=/ecfrbrowse/Title40/40cfr763_main_02.tpl
TX Drycleaners: http://www.tceq.state.tx.us/permitting/registration/dry_cleaners/Am_I_Regulated.html
TX Drycleaners Database: http://www5.tceq.state.tx.us/dcr2_dpa/
EPA regions and state links: http://www.epa.gov/ow/region.html
Texas Asbestos Program: http://www.dshs.state.tx.us/asbestos/default.shtm
HUD Lead Laws: http://www hud.gov/offices/lead/enforcement/regulations.cfm
Environmental Information Association: http://www.eia-usa.org/

University Procedures:
Students taking online classes at Texas A&M University-Commerce have the same rights as students enrolled in on-ground classes. The A&M-Commerce Student Guidebook details those rights and explains complaint and grievance procedures, as well as the Student Code of Conduct. Students have the right to appeal course grades, admissions committee decisions, or any adverse action taken by any online faculty against any student. The appeals process is the same for all types of appeals.

The student should first attempt to resolve the problem directly with the involved faculty member. If you have questions pertaining to the content of this course, please contact your me via email.

Students with Disabilities:
The Americans with Disabilities Act (ADA) prohibits discrimination against people with disabilities in employment, transportation, public accommodation, communications, and governmental activities. If you have a disability requiring an accommodation, please contact:
Office of Student Disability Resources and Services, Texas A&M University-Commerce, Gee Library, Room 132 Phone (903) 886-5150 or (903) 886-5835, Fax (903) 468-8148, StudentDisabilityServices@tamu-commerce.edu

Plagiarism:
All sources of information must be referenced. Unreferenced or stealing of other’s sentences, paragraphs, or entire paper is a serious ethical of offense and even a crime activity.

Early intervention for first year students:
Early intervention for freshmen is designed to communicate the University’s interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.