Syllabus for EVE 420.001
EVE 420 - Solid Waste System Design
Spring Semester 2005
Tuesday and Thursday
12:15 to 1:30 pm
Room: EGC 109

Instructor: Dr. Philip McCreanor, Assistant Professor
Department of Biomedical and Environmental Engineering

Office: Suite 116F, School of Engineering
Phone: 301-2044 (w)
Email: mccreanor_pt@mercer.edu

Textbooks and Supplies:
Required:

Suggested Reference:

Web Sites:
http://www.mercer.edu/webct/ → Production Site → Log on to my WebCT

Your login name for the Class Web Site is your Mercer Identification Number. Your initial password is your six-digit birth date (YYMMDD). For questions about the Mercer Identification Number, please contact the Registrar's Office (x2217). Change this password immediately to protect your personal security. Note: Your password for the Class Web Site is case sensitive (ie: XYZ ≠ xyz). Remember that it is case sensitive when changing your password and logging in.

http://faculty.mercer.edu/mccreanor_pt/EVE420/EVE420_Table_of_Contents.htm or http://faculty.mercer.edu/mccreanor_pt → Courses → EVE 420

Catalog Description: (Course Purpose)
Engineering design, planning, and analysis of problems associated with storage, collection, processing, and disposal of solid waste.

Course Objectives: (Learning Objectives)
Learning objectives preface each of the on-line lessons.
Prerequisites: (and/or corequisites)
  - CHM 111, General Chemistry I,
  - EGR 235, Thermodynamics
  - EVE 290, Introduction to Environmental Engineering

Grading:
  
  Exam #1: 20%
  Exam #2: 20%
  On-line Quizzes: 15%
  Homework & Assignments: 15%
  Final exam: 30%
  total: 100%

Letter grades will be assigned using a 10 point scale (90-100 A, 80-89 B, etc.)

Course Standards:

1. Attendance is required. Students are expected to attend all scheduled class periods and arrive on-time. More than three absences will result in a grade penalty of 1 point per absence.
2. Tardiness Policy: If you are more than 10 minutes late to lecture, please do not enter the classroom. If a lecture has started, please take the first available seat.
3. No eating during class.
4. Please turn off cell phones and pagers before entering the classroom.
5. On-line Quizzes: On-line quizzes will be placed on the Class Web Site. These quizzes will be due by 11pm on the due date. The quizzes will have a 1-hour time limit and will cover the on-line lesson materials. It is expected that the results of these quizzes represent an individual effort.
6. Homework and reading assignments will be assigned at the end of lecture sessions.
   - On-line homework sets will be due by a specified time on the due date. A hard copy rework of the assignment may be submitted by 5 pm on the day following the on-line due date for re-grading and up to full credit. Hard copies will not be accepted unless the homework has been submitted on–line. Hard copy submissions may be made after the deadline only by PRIOR arrangement with the instructor.
     - Hard copy rework submissions should consist of 1) a printout of the graded homework and 2) neat reworks of the missed problems.
   - Traditional homework sets will be due as specified. Submissions may be made after the deadline only by PRIOR arrangement with the instructor.
   - While students are encouraged to work together on homework problems. Mastery of the material is a personal responsibility.
7. Late Work: Any missed work or exams, etc. WILL NOT BE MADE UP unless an emergency or unavoidable cause can be identified and approved.
8. You are encouraged to schedule a conference at any point that you need it. If you need to see me, catch me after class to schedule a time or call the BME/EVE/TCO Secretary at 301-2430 to get on my calendar.
9. The **honor code** provisions as outlined in the *Bulletin* and in the student handbook, *The Lair*, will be assumed for everyone. Plagiarism is a violation of the honor code and is prohibited. Your grade is your responsibility. Any work that is not your own will result in an "F" for the course. Cheating of any kind will not be tolerated.

10. This syllabus is subject to change. An instructor's posting to the Class Web Site will be considered written notification of any changes to the syllabus or class requirements.

**Disability Services:**

Students with a documented disability should inform the instructor at the close of the first class meeting. The instructor will refer you to the office of Student Support Services (SSS) for consultation regarding evaluation, documentation of your disability, and recommendations for accommodation, if needed. Students will receive from SSS the *Faculty Accommodation Form*. On this form SSS will identify reasonable accommodations for this class. The form must be given to the course instructor for signature and then returned to SSS.

To take full advantage of disability services, it is recommended that students contact the Office of Student Support Services, immediately. The office is located on the third floor of the Connell Student Center.

**Electronic Communication:**

Electronic communication is an important adjunct to face-to-face communication, including from professor to students, students to professor, and students to students. You must have regular access to your e-mail and to WebCT. If you do not have an active e-mail address on the first day of class, please secure one. Access to the Web and to the Internet is also integral to the class work. A number of laboratories on campus will provide access, in addition to EGC 102 and EGC 111-B.

**Important Dates:**

- Exam #1: Feb. 24 *(tentative)*
- Withdrawal Deadline: March 28
- Exam #2: April 14 *(tentative)*
- Final Exam: Thursday May 5, 7 to 10 PM *(tentative)*
- Final Exam Period: May 5 to May 10

**Lecture Topics:**

- Solid Waste Regulations
- Waste Generation
- Waste Characterization
- The Physical Properties of Waste
- Waste Collection Operations
- Transfer Operations
- Landfills
- Recycling
- Waste Separation and Processing
# Class Planner:

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<tr>
<th>Week</th>
<th>Lecture Dates</th>
<th>NOTES Tuesday</th>
<th>NOTES Thursday</th>
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<td>1</td>
<td>Jan. 13</td>
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<td>First Day of Class</td>
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Notes: