

## Chemical and Biomolecular Engineering 380, Spring 2009

**CHEMICAL AND BIOMOLECULAR ENGINEERING (CBE) 380 Seminar (1)** Presentation and Discussion of Topics in the Practice of Chemical (and Biomolecular) Engineering.

**380 Section 001:** Discussion Session: 2:10-3:25 T, Dougherty 405

**Instructor:** Stephen J. Paddison, Dougherty 423  
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**Required Text:** None

**Grading:** S/NC only

**Requirements:**

1. To earn a grade of S in this course, you must:
  - Attend **all** classes, unless a valid excuse has been approved in advance by the instructor. Valid excuses are those outlined in Hill Topics. The reason must be beyond the student's control to be valid. For any excused absences, you must submit an acceptable memorandum of explanation using a word processor or via e-mail to the instructor.
  - Receive an average grade of 70 or better, where the talk counts 75% and the discussion is 25%.
  - Participate in all group activities.
2. Present an oral presentation on a topic related to one of the course objectives on the attached sheet.
3. Submit a rating on each presentation other than your own using the online Grading Rubric on the class web site (bring laptop computer to class).
4. Be responsible for leading a question and answer session after another oral presentation.
5. Complete 10 Continuing Education Experiences (CEE's). If you are also enrolled in another course requiring 10 CEE's (for example, CBE 240, 488, or 490), you do *not* need to earn more than 10 for the semester; just turn in copies of your completed CEE sheet to your other instructor and me.

**E-mail & Web:** From time to time, we will post important information at the class web site or via e-mail. You will need to subscribe to the class e-mail list by sending a blank message to [ChE380@chem.engr.utk.edu](mailto:ChE380@chem.engr.utk.edu) with the word *subscribe* in the subject line.

If you are registered for CBE 380, you should be able to log in to the course web site at <http://online.utk.edu/> with your Net ID and password.

***Please subscribe to the e-mail list today; you are responsible for all information sent to the class e-mail list.***

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### *Course Objectives*

At the conclusion of this course, the student should have demonstrated awareness of:

1. the engineer's professional and ethical responsibilities, for example, (a) professional registration; (b) responsibility of the engineer to his/her employer and to society
2. the impact of engineering solutions in a global and societal context
3. the necessity of lifelong learning for an engineer
4. environmental protection, including environmentally benign chemical processes
5. chemical process safety concepts, for example, (a) management for process safety; (b) safe handling of toxic materials; (c) principles of fires and explosions; (d) design for inherent safety
6. contemporary issues related to the process industries