Chemical and Biomolecular Engineering 380, Spring 2011

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, Perkins 324

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Instructor: Prof. David J. Keffer, Dougherty 617
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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.

6. Complete at least 5 modules of the online SACHE safety certification process and present proof of completion.

E-mail & Web: From time to time, we will post important information at the class web site or via e-mail. 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.

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

Schedule

Lecture	Date	Presentation 1	Presentation 2
1	January 17, 2012	Introduction	Keffer
2	January 24, 2012	Organizational Meeting	Keffer
3	January 31, 2012	No Class	
4	February 7, 2012	Team 1	
5	February 14, 2012	Team 2	
6	February 21, 2012	Team 3	
7	February 28, 2012	Team 4	Team 17
8	March 6, 2012	Team 5	Team 16
9	March 13, 2012	Team 6	Team 15
10	March 20, 2012	No Class	Spring Break
11	March 27, 2012	Team 7	Team 14
12	April 3, 2012	Team 8	Team 13
13	April 10, 2012	Team 9	Team 12
14	April 17, 2012	Team 10	Team 11
15	April 24, 2012	No Class	