CHE 125 - Fall, 2008
Introduction to Chemical Engineering (1 credit hour)

SYLLABUS

Instructor: Dr. Alan Lane, A127K Bevill, 348-1729, alane@eng.ua.edu
Class Time: M 2:00-2:50  Class Room: MIB 126   Office Hours: by appointment or email
Web Page: http://unix.eng.ua.edu/~checlass/che125

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<td>12/1</td>
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Notes about textbook:
The first three chapters of Felder and Rousseau are available from the bookstore at a much reduced price for those students undecided about a chemical engineering major. I advise buying the complete text if you have already decided because it will be required in ChE 254 “Chemical Engineering Calculations”.

Other Required Course Materials
Each student is required to own a CPS-RF response pad from eInstruction (hereafter known as the “clicker”), register it for this course, and bring it to each class in working order. It will be used to record your attendance, performance on weekly quizzes, and responses to in-class questions and exercises. If you forget to bring your clicker or it malfunctions, you will receive a zero score for both that day’s attendance and quiz. The class key is F42938K937. You also will need to bring a scientific calculator to each class for the quiz and exercises.

Co-requisite
MA 113 suggested

Catalog Description
An introduction to the chemical engineering profession, its history, and its career-enabling potential. The course contains selected topics, plant visits, and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical, and petroleum industries.

Professional Conduct
This is a professional course and you are expected to conduct yourself in a professional manner at all times. Arriving late, leaving early, talking out of turn, reading the newspaper, playing games on your laptop computer, etc. show disrespect for the speaker and distract your colleagues.

ABET Outcomes
ABET accreditation requires that all Chemical Engineering graduates possess specific attributes. As assessed in this course, you will possess:
• knowledge of contemporary issues (rubric based grading)
Expected Student Learning Outcomes

Students will be able to:
1. Describe the chemical process industry, chemical engineering career options, and the skills chemical engineers bring to the profession;
2. Describe the chemical engineering curriculum;
3. Describe contemporary issues in the discipline, particularly those addressed in the research programs at The University of Alabama;
4. Demonstrate skills required to be a successful engineering student;
5. Identify and participate in the many professional organizations, seminars, and other activities available on campus;
6. Meet the instructional objectives listed in sections 2.0 and 3.0 of Felder and Rousseau.
7. Form effective teams for in-class think-pair-share exercises.
8. Participate actively in class activities.

Class Participation (4 points/class)
Attendance is mandatory and rewarded with 4 points/class. This is documented by logging in with your clicker as you enter class. Please arrive on time and participate actively in class. If an unavoidable conflict or serious illness requires you to miss class, please contact Dr. Lane before class to arrange make up work (348-1729 or alane@eng.ua.edu).

Make Up Work
You may make up any lost points by participating in approved professional activities as described below. If you make prior arrangements for an absence, you may be permitted to turn in your homework assignment and a brief written description of the reading assignment (instead of the quiz).

Homework (not graded)
Homework will be assigned most weeks and solutions will be available on the course web page. You are encouraged to discuss the problems and compare answers with classmates and the web page, but only after you work through a problem by yourself. Homework will be graded indirectly with the weekly quizzes.

Quizzes (2 points/quiz)
Class will start with a simple ~5 minute quiz designed to measure your comprehension of the reading and homework assignments for that day. No final exam.

Extracurricular Activities (typically 1 or 2 points)
Additional points may be earned by participating in professional activities. These include field trips to local industry, AIChE (or other professional) student meetings, seminars, and co-op workshops/interviews. Activities required for other courses, parties, sporting events, concerts, church services, etc. are highly encouraged but do not count.

Computer Skills
You should already be generally skilled in using a computer. You will need to use Microsoft Office (or equivalent) tools, communicate by email, and access the course web site. Please see Dr. Lane if this is a problem for you.

Grading
Your final grade will be determined as follows:

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<th>Metric</th>
<th>Points</th>
<th>Total Points</th>
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<tr>
<td>14 class periods</td>
<td>4</td>
<td>56</td>
</tr>
<tr>
<td>13 quizzes</td>
<td>2</td>
<td>26</td>
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<tr>
<td>Professional Activities</td>
<td>1 or 2</td>
<td>No limit</td>
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Example: Grade = 3 + 4x14 + 2x13 + ???

Simply attending class and successfully completing each quiz will earn 85 points (a grade of B) in this course. Approved professional activities will either make up for missed opportunities or simply add to your score up to a maximum of 100 points (a grade of A+).

Assignment sheets and course content are subject to modification when circumstances or sound pedagogy dictate and as the course progresses. If changes are made, you will be given due notice.
Code of Academic Conduct (see UA catalog for details)

All students in attendance at The University of Alabama are expected to be honorable and to observe standards of conduct appropriate to a community of scholars. The University of Alabama expects from its students a higher standard of conduct than the minimum required to avoid discipline. At the beginning of each semester and on tests and projects at the discretion of the professor, each student will be expected to sign an Academic Honor Pledge. The pledge reads as follows:

I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at The University of Alabama. I have read the Academic Honor Code, which explains disciplinary procedures that will result from the aforementioned. I understand that violation of this code will result in penalties as severe as indefinite suspension from the University.

Plagiarism Detection

The University of Alabama is committed to helping students uphold the ethical standards of academic integrity in all areas of study. Students agree that their enrollment in this course allows the instructor to use electronic devices to detect plagiarism. All course materials are subject to submission to Turnitin.com or other similar resources to detect textural similarities and help students avoid plagiarism in written documents.

Disability Accommodation

Students with disabilities are encouraged to register with the Office of Disability Services, 348-4285. Thereafter, you are invited to schedule appointments to see me during my office hours to discuss accommodations and other specific needs.