

ENGR/BUSI 4980 Capstone Project II: Design Project Spring 2003

M 3:00/TH 2:00
Dr. R. L. Bulfin
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Office Hours: TBD

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Credit Hours: 3 SCH (1 lecture, 2 lab)

Prerequisites: ENGR 4970 or BUSI 4970

Text Book: Ulrich and Eppinger, Product Design and Development

I. Objectives:

- A. Demonstrate an appreciation for, understanding of, and ability to apply the principles of business practice in decision-making.
- B. Demonstrate an appreciation for, understanding of, and ability to apply the principles of engineering practice in decision-making.
- C. Demonstrate an ability to work in cross-functional, culturally diverse teams.
- D. Demonstrate an appreciation for, understanding of, and ability to apply criteria that affect technical, schedule, cost, and risk decision-making in competitive environments.
- E. Demonstrate an understanding of and participate in the processes required to create and present a business plan for the commercialization of a product or service.
- F. Demonstrate an understanding of and participate in the processes required to design, develop, prototype, and test a product or service.
- G. Demonstrate an appreciation for and understanding of the issues involved when implementing business and engineering solutions that use cutting edge technologies, concepts and systems.

II. Grading and Evaluation Procedures:

Course Requirements: The course is based on mastering competency material and participating in case study discussions.

Grading (100 points):

| | |
|---------------------------------|----|
| Progress Reports | 20 |
| Preliminary Design Presentation | 10 |
| Preliminary Design Report | 15 |
| Final Design Presentation | 15 |
| Final Design Report | 40 |

III. Statement related to policies on unannounced quizzes, class attendance, and

participation:

Students are expected to be present in the classroom and can be excused only with University approved excuses. Students are expected to attend the following:

January 11, 2003 8:30 AM - 1:00 PM Professional Presence Seminar by Ms. Nancy Cleveland. Subject: Business Etiquette and Protocol. Continental Breakfast available at 8:30 AM. Seminar begins at 9:00 AM. Lunch served Noon-1:00 PM.

February 22, 2003 8:30 AM - 1:00 PM Professional Presence Seminar by Ms. Nancy Cleveland. Subject: Visual Impact. Continental breakfast available at 8:30 AM. Seminar begins at 9:00 AM. Lunch served Noon-1:00 PM.

IV. Special Accommodation for Students with Disabilities:

Students with special accommodations should make an appointment to discuss the accommodation memo during my office hours as soon as possible. If scheduled office hours conflict with classes, please arrange an alternate appointment time. If you do not have an accommodation s memo, but need special accommodations, please contact the Program for Students with Disabilities, 1244 Haley Center, 334?844?5943 (Voice T/O).

V. Academic Honesty:

All portions of the Auburn University Honesty Code (TITLE XII) found in the TIGER CUB will apply in this class.

| Day | Date | Topic/Reading |
|--|---------|---|
| Thu 2pm | 1/09/03 | Recap of last semester |
| Mon 3pm | 1/13/03 | Ch 8 |
| Mon 5pm | 1/13/03 | Ch 9 |
| Mon 3pm | 1/20/03 | MLK |
| Mon 5pm | 1/20/03 | MLK |
| Mon 3pm | 1/27/03 | Ch 10 |
| Mon 5pm | 1/27/03 | Ch 11 |
| Mon 3pm | 2/03/03 | Ch 12 |
| Mon 5pm | 2/03/03 | Ch 13/ Progress Report |
| Mon 3pm | 2/10/03 | Team meeting |
| Mon 5pm | 2/10/03 | Team meeting |
| Mon 3pm | 2/17/03 | Team meeting |
| Mon 5pm | 2/17/03 | Team meeting |
| Mon 3pm | 2/24/03 | Team meeting |
| Mon 5pm | 2/24/03 | Preliminary Design Presentation / Preliminary Design Report |
| Mon 3pm | 3/03/03 | Team meeting |
| Mon 5pm | 3/03/03 | Team meeting |
| Mon 3pm | 3/10/03 | Team meeting |
| Mon 5pm | 3/10/03 | Team meeting |
| Mon 3pm | 3/17/03 | Team meeting |
| Mon 5pm | 3/17/03 | Progress Report |
| Mon 3pm | 3/24/03 | Break |
| Mon 5pm | 3/24/03 | Break |
| Mon 3pm | 3/31/03 | Team meeting |
| Mon 5pm | 3/31/03 | Team meeting |
| Mon 3pm | 4/07/03 | Team meeting |
| Mon 5pm | 4/07/03 | Progress Report |
| Mon 3pm | 4/14/03 | Team meeting |
| Mon 5pm | 4/14/03 | Team meeting |
| Mon 3pm | 4/21/03 | Team meeting |
| Mon 5pm | 4/21/03 | Team meeting |
| Mon 3pm | 4/28/03 | Team meeting |
| Mon 5pm | 4/28/03 | Team meeting |
| FINAL WEEK Final Design Presentation / Design Report | | |