ENGINEERING 1 FALL 1999 THE ENGINEERING PROFESSION (1 UNIT) TWELVE WEEK COURSE 8/16/99 - 11/1/99

INSTRUCTOR: C. L. Glaves

OFFICE: FEM-4D

PHONE: 638-3641 ext. 3215

OFFICE HOURS: MWF 9:00 - 9:50 AM

M-2:40 - 3:30 PM C.G.

or by appointment

TEXT:

1. Design Concepts for Engineers, Mark N. Horenstein, Prentice Hall

2. Engineering Ethics, Charles B. Fleddermann, Prentice Hall

This course is designed to introduce prospective engineering students to various aspects of the profession. It also will familiarize new engineering students with some of the basic computer tools used throughout the sequence of courses. Some of the topics covered will be: educational course of study, engineering design, professional ethics, types and functions of engineers, and possible career paths. The course is not mathematically intensive, although some calculations are introduced. Skills prerequisites for this class are eligibility for Math 1, English 25, and English 26.

GRADING: 40% H

40% Homework assignments

20% Group Design Project

20% Final Exam

20% Written paper (due last class meeting)

GRADING SCALE:

89% A

77% B

65% C

50% D

ATTENDANCE: In accordance with RC policy, attendance is mandatory. Students may be dropped if they miss more than two class meetings. Please inform me if you must miss more class than this and do not want to be dropped.

DROP DATE: Friday, September 24 is the last day to drop this class and not receive a letter grade. This is the half-way point in the course.

HOLIDAYS: Monday, September 6, Labor Day

FINAL EXAM: Monday, November 1, 3:30 – 4:45 PM

SCHEDULE

MEETING		TOPIC
1	Aug. 16	Introduction and Program of Study
2	Aug. 23	Fields and Functions of Engineering
3	Aug. 30	Intro to Design
4	Sept. 6	Labor Day – no class
5	Sept. 13	Team Design I
6	Sept. 20	Team Design II
7	Sept. 27	Computer Tools (Word proc., CAD, Mathematica, Spreadsheets I)
8	Oct. 4	Computer Tools (Spreadsheets II)
9	Oct. 11	Ethics I
10	Oct. 18	Ethics II
11	Oct. 25	The Engineering Career + review for final
12	Nov. 1	Final Exam + written paper due