

ENGR 1111 Intro to Engineering (CRN = 24689)

Spring 2005
 Department of Physics and Engineering
 University of Central Oklahoma

Location	Howell Hall 201
Time	T 12:00 p.m. - 12:50 p.m.
Instructor	Evan Lemley, Ph.D.; Assoc. Prof., Department of Physics and Engineering
Office	Howell Hall 221L
Web	http://engrphys.lemley.org
email	elemley@ucok.edu
Phone	(405)974-5473
Office Hours	MWF 9:00 a.m. - 10:00 a.m. or by appointment
Final	Tuesday May 3, 2005 from 11:00 am - 12:50 pm

Course Description

This course provides an introduction to the various branches of engineering, and to engineering fundamentals such as problem-solving techniques, computer-aided design and drafting, and computer applications.

Prerequisites

None

Textbooks

Engineering Success, Peter Schiavone, Second Edition, Prentice Hall, 2002.

Engineering Design and Problem Solving, Steven K. Howell, Second Edition, Prentice Hall, 2002.

Instruction Techniques

Lecture will be used predominantly although sometimes recitation periods will be employed.

Class Policies

Attendance is not required, but you will be responsible for any announcements or notes from class (and quizzes).

Exam attendance is mandatory for all exams or other graded activities (e.g. project competitions or presentations).

Cheating or academic dishonesty of any kind will not be tolerated.

All Homework

Working HW problems in a timely manner is the best way to do well on exams and in the class as a whole. Homework is due at the beginning of the class period on the due-date or due-day.

Non-Web Homework

Homework should be neatly written on only one side of your paper, folded length-wise with your name written on the outside of the folded pages before turning it in. Each problem should fit all of the following criteria: clearly labeled, **one problem per sheet of paper**, legible and organized. HW papers that do not fit these criteria will be penalized accordingly. You may visit the following site for an electronic version of the homework format requirements: http://engrphys.lemley.org/courses/hwk_format.php

Each HW problem you turn in is worth ten points. Some problems will be graded on detailed solutions and others will be graded on effort. I will **not** tell you ahead of time which or how many problems will be graded relative to a detailed solution, but on the returned and graded HW paper a check mark next to the problem number will indicate full effort (or ten points) and a numerical score (e.g. 8/10) next to the problem number will be used on those problems under more scrutiny.

Grading Policies

The following table shows the breakdown of credit for the course.

HW and misc.	25%
Advising	25%
Attendance	25%
Project	25%
Total	100%

Tentative Grading Scale

90-100% -- A, 80-90% -- B, 70-80% -- C, 60-70% -- D, <60% -- F

Advising

As part of this course you will be advised by a faculty member from the Physics and Engineering Department. This advisement will be arranged by Dr. Lemley who will give you the proper forms and arrange an advisement time. *Advisement is a class requirement. Dr. Lemley or a Physics and Engineering faculty member must sign off on all advisement forms before you will receive a grade for this course.*

STUDENT INFORMATION SHEET / SYLLABUS ATTACHMENT

See <http://www.busn.ucok.edu/academicaffairs/FORMS/StudentINFOFall04.pdf>.

Tentative Class Schedule for Intro to Engineering Spring 2005

Week #	Day	Date	Topic
1	T	11Jan2005	Syllabus // Introduction
2	T	18Jan2005	UCO Background // Educational Goals // Academic Biography
3	T	25Jan2005	Why Engineering? // Academic Success in Engineering
4	T	01Feb2005	Leadership Opportunities // Campus Organizations // PEC Presentation
5	T	08Feb2005	Campus Resources // Student Code of Conduct // Engineering Ethics
6	T	15Feb2005	Engineering Ethics Exercise
7	T	22Feb2005	Problem Solving, Engineering Design, and Teams
8	T	01Mar2005	Problem Solving, Engineering Design, and Teams
9	T	08Mar2005	BME and EP Advising Overview
10	T	15Mar2005	Spring Break - No Class
11	T	22Mar2005	BME and EP Advising
12	T	29Mar2005	ROBOLAB
13	T	05Apr2005	ROBOLAB
14	T	12Apr2005	ROBOLAB
15	T	19Apr2005	ROBOLAB
16	T	26Apr2005	ROBOLAB Competition
17	T	03May2005	Team Design Presentations 11:00 a.m. - 12:50 p.m.