

EE 1100.003.15F Course Syllabus

Course Information

Course Number/Section EE 1100.003.15F
Course Title Introduction to Electrical Engineering

Term 2015 Fall
Days & Times Monday: 2:00pm to 2:50pm
Meeting Place Monday MC 2.410

Professor Contact Information

Professor James M. Florence, Ph.D.
Office Phone 972-883-4968
Email Address James.Florence@utdallas.edu
Office Location ECSN 4.320
Office Hours Monday 10:30am to Noon in ECSN 4.320
Wednesday and Friday 10:30am to Noon in SPN 1.115

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Required for Incoming Freshmen in EE and CE. Must also be enrolled in either EE1100.305.15F or EE1100.306.15F. Meeting in SPN 1.115

Required Textbooks and Materials

Required Texts

Engineering Your Future by William C. Oakes and Les L. Leone, Eighth Edition (Oxford University Press, 2015) ISBN: 978-0-19-934801-5

Computer and software:

It is strongly recommended that you purchase a personal laptop for this course. The software that will be used for this course includes Microsoft Office (Word, Excel, Power Point). Laptops and software can be purchased from the UTD Technology Store (<http://www.utdtechstore.com/>).

Notes, supporting material and other resources will be posted on eLearning.

Course Description

Introduction to discipline and practice of Electrical and Computer Engineering; Overview of the EE/CE curricula. Basic study, problem solving and other skills needed to succeed as an EE or CE major. Introduction to professional ethics, EE/CE engineering design and quantitative methods; team projects designed to replicate decision process in real-world applications of the EE/CE engineering process. BMEN 1100 or CE 1200 or CS 1200 or MECH 1100 can substitute for this course. Credit cannot be received for more than one of the following: BMEN 1100, CE 1100, CS 1200, EE 1100 or MECH 1100.

Course Objectives

Upon successful completion of this course, students will have:

- a) An understanding of the Electrical and Computer engineering professions and the degree programs leading to them.
- b) An appreciation of professional ethics.
- c) An appreciation for seeing Electrical Engineering as a pathway to solving problems in the real world.
- d) An understanding of Electrical Engineering Problem Solving techniques.
- e) An understanding of Electrical Engineering instrumentation and laboratory techniques.

Detailed Course Content:

The following is a *tentative* schedule of class topics. These dates and topics are subject to change. It is the responsibility of the student to keep up with these changes.

WEEK	DAY 1 (Monday Lecture)	Day 2 (Wed or Fri Lab)
8/24	Course Introduction	Lab Intro
8/31	Studying Engineering	Basic Measurements
9/7	Labor Day – No Class	LaunchPads
9/14	Numbers and Equations	LaunchPads
9/21	TI Guest Lecture	Circuits and Signals Project
9/28	Circuits and Signals	Circuits and Signals Project
10/5	Circuits and Signals	Circuits and Signals Project - Due
10/12	Exam #1	Cell Phone Chargers
10/19	Energy and Power	Cell Phone Chargers
10/26	Communication	Cell Phone Chargers – Project Due
11/2	Communication	IR Communication Project
11/9	Problem Solving	IR Communication – Project Due
11/16	Exam #2	Semester Project
11/23	Fall Break – No Class	Thanksgiving
11/30	Computing	Semester Project
12/7	Computing	Semester Project - Due

Important Dates:

Exam Dates: Exam #1 Monday, October 12th
 Exam #2 Monday, November 16th

Exams will be closed book closed notes.

Last day to withdraw without "W":	September 9
Last day to withdraw with "W":	October 29
Fall break (no classes):	November 23-27
Last day of classes:	December 9
Finals week:	December 11-17

Grading Policy

[10%] Class Attendance: You are required to attend all class sessions. Class attendance will be taken randomly throughout the semester – 20 points out of a total of 100 for attendance will be deducted for each unexcused absence.

Being 10-minutes late or leaving before class has ended will result in an absence for that class session. Proper documentation must be provided for excused absences (such as a doctor's note).

[40%] Exams: There will be two exams each worth 20%. Make-up exams will only be allowed for the cases of illness, attendance of a university sponsored event (such as an athletic activity) or under unusual circumstances (such as the death of a friend or family member). For each case, the student is required to provide proper documentation (such as doctor's note or note from athletic advisor).

[25%] Homework Assignments and Lab Activity Reports: Homework and Lab Reports will be assigned regularly during the Semester and will be posted on the eLearning Site. You are responsible for keeping up with the postings of assignments and their due dates. *No late homework assignments or in-class activities will be accepted under any circumstances.*

[25%] Final Lab Report: A final lab report on the Semester Project will be due at the end of the semester in lieu of a Final Exam. The Final Lab Report will be due on or before Friday, December 11th.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.