EE 1100.002.16F Course Syllabus

Course Information

Course Number/Section	EE 1100.002.16F
Course Title	Introduction to Electrical Engineering
Term	2016 Fall
Days & Times	Monday: 10:00am to 10:50am
Meeting Place	Monday JSOM 1.117

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 11:30am to 1:00pm in ECSN 4.320 Wednesday and Friday 11:30am to 1:00pm 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 EE1100.303.16F or EE1100.304.16F. Meeting in SPN 1.115

Required Textbooks and Materials

Required Texts

Engineering – Electrical Engineering 1100 Pearson Custom Library IBSN: 978-1-323-35424-7

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)
8/22	Course Introduction	Lab Intro
8/29	Studying Engineering	Basic Measurements
9/5	Labor Day – No Class	LaunchPads
9/12	Numbers and Equations	LaunchPads
9/19	Communication	IR Communication Project
9/26	TI Guest Lecture	IR Communication Project
10/3	Circuits and Signals	IR Communication Project - Due
10/10	Circuits and Signals – Exam Review	Circuits and Signals Project
10/17	Mid-Term Exam	Circuits and Signals Project
10/24	Energy	Circuits and Signals Project - Due
10/31	Excel Spreadsheets	Energy Project
11/7	Ethics	Energy Project
11/14	Problem Solving	Energy Project - Due
11/21	Fall Break – No Class	Thanksgiving
11/28	Problem Solving	Semester Project
12/5	Critical Thinking	Semester Project - Due

Important Dates:

Exam Date: Mid-Term Exam Monday, October 17th

Exam will be closed book closed notes.

Last day to withdraw without "W":	September 7
Last day to withdraw with "W":	October 27
Fall break (no classes):	November 23-27
Last day of classes:	December 7
Finals week:	December 9-15

Grading Policy

[**10%**] **Homework**: Homework 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 will be accepted under any circumstances.*

[**20%**] **Mid-Term Exam**: There will be one Mid-Term Exam worth 20%. Make-up exam 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).

[3x15% = 45%] Lab Activity Reports: There will be three Lab Reports assigned 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 Lab Reports will be accepted under any circumstances without prior approval of the instructor.*

[**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 9th.

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.
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> 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.