

EE 1100.002.18F Course Syllabus

Course Information

<i>Course Number/Section</i>	EE 1100.002.18F
<i>Course Title</i>	Introduction to Electrical Engineering
<i>Term</i>	2018 Fall
<i>Days & Times</i>	Monday: 10:00am to 10:50am
<i>Meeting Place</i>	Monday ECSS 2.410

Professor Contact Information

<i>Professor</i>	James M. Florence, Ph.D.
<i>Office Phone</i>	972-883-4968
<i>Email Address</i>	James.Florence@utdallas.edu
<i>Office Location</i>	ECSN 4.320
<i>Office Hours</i>	Monday 11:30am to 1:00pm in ECSN 4.320 Tuesday 10am to 1pm in SPN 1.115 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 one lab session 301 to 308 meeting in SPN 1.115

Required Textbooks and Materials

Text:

Thinking Like an Engineer (with MyEngineering Lab Access) by Elizabeth A. Stephan et al., ISBN: 9780134701264

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)
8/20	Course Introduction	Lab Intro
8/27	Studying Engineering	Kirchhoff's Laws
9/3	Labor Day – No Class	Catch-Up for Late Enrollees
9/10	Numbers and Equations – Resistor Code Quiz	Oscilloscope and Function Generator
9/17	RL and RC Circuits/Design/Teamwork	Circuits and Signals Project
9/24	Engineering Communication/Excel Spreadsheets – RLC Quiz	Circuits and Signals Project
10/1	LaunchPads	LaunchPads (C&S Lab Report Due)
10/8	Larry Overzet Talk - Exam Review	LaunchPads
10/15	Mid-Term Exam	Traffic Light Project
10/22	Estimation – LaunchPad Quiz	Traffic Light Project
10/29	Communications	IR Communication Project (TL Lab Due)
11/5	Energy	IR Communication Project
11/12	Ethics – Units/Dimensions Quiz	IR Communication Project (IRC Lab Due)
11/19	Fall Break – No Class	Thanksgiving
11/26	Alumni Talk – Ethics Paper Due	Semester Project
12/3	TBD	Semester Project – Due Dec 14th

Important Dates:

Exam Date: Mid-Term Exam Monday, October 16th

Exam will be closed book closed notes.

Quiz Dates: September 10th, September 24th, October 22nd, November 12th

Some notes will be allowed on quizzes – announcements on what is allowed will be posted prior to the quiz dates

Last day to withdraw without "W":	September 5
Last day to withdraw with "W":	November 5
Fall break (no classes):	November 19-25
Last day of classes:	December 8
Finals week:	December 11-17

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. Homework will be submitted through eLearning or MyEngineering Lab – all submissions will be electronic. *No late homework assignments will be accepted under any circumstances without prior approval of the instructor.*

[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).

[4x5% = 15%] Quizzes: There will be five quizzes on the dates indicated above. All quizzes will be administered through the eLearning site

[3x10% = 30%] 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. Lab report submissions will be through the eLearning site – all submissions will be electronic. *No late Lab Reports will be accepted under any circumstances without prior approval of the instructor.*

[20%] 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 Semester Project must be demonstrated in the lab during the week of December 3rd. The Final Lab Report will be due through the eLearning electronic submission on or before Friday, December 14th.

Final Exam – There will be no Final Exam for this course.

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.