EENG 1910 Project I – Introduction to Electrical Engineering
Fall 2019
Thursday, 2:30 – 5:20 PM
Classroom: DP B227

Instructor: Dr. Shengli Fu
Office: DP B279
Email: Shengli.Fu@unt.edu
Office Hours: Wednesday 2:00pm – 4:00pm or by appointment
Teaching Assistant: Dikshya Adhikari
Office Hours: Mondays/Thursdays 12:30PM – 2:30PM
Office & E-mail: B239, dikshyaadhikari2@my.unt.edu

Course Description
This course is designed to provide students the foundation necessary for the successful completion of the electrical engineering program. It discusses the program and introduces basic electrical and electronic concepts. It provides an introduction to the use of basic lab equipment and standard software. The engineering design process which embodies the steps required to take an idea from concept to successful design is also introduced along with ethical and contemporary issues.

Textbooks
No required books, but please check course material in Canvas.

Grading Policy:
Assignments: 25%
Presentations/Reports: 40%
In Class Questions/Quizzes: 20%
Final Examination: 15%

General Policies:
• Class attendance is mandatory.
• Assignments and announcements about the course will be posted on Canvas.
  It is your responsibility to always check Canvas https://unt.instructure.com/login/ldap
• Assignments are due at the beginning of the class on the due date.
• All assignments are to be turned in on Canvas and in class (hard copy of the reports and/or answers to the questions)
• All assignments must be typed – no hand-written work will be accepted.
All assignments are individual work unless otherwise stated. Everyone must therefore turn in his/her own individual work. Simply copying others work will be treated as a violation of academic honesty.

**Tardiness**: If you arrive late, please enter quietly and sit down.

**Cell Phones**: Please remember to turn off phones prior to class or put them in silent mode (for emergency purpose only).

Students are strongly encouraged to get to know each other in the class.

Discussions on course materials are allowed.

It is the responsibility of students with disabilities to provide the instructor with appropriate documentation so that a learning environment that provides for reasonable accommodation of their disabilities is guaranteed. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class. (see [https://disability.unt.edu/](https://disability.unt.edu/)).

Please visit [http://www.unt.edu/csrr/](http://www.unt.edu/csrr/) for your rights and responsibilities.

Carrying of Concealed Handguns on Campus: visit [https://campuscarry.unt.edu/](https://campuscarry.unt.edu/) for the University policies and your rights.

Important dates and deadlines are available at [https://registrar.unt.edu/registration/spring-registration-guide](https://registrar.unt.edu/registration/spring-registration-guide)

**SPOT Evaluation**:  
The Student Perceptions of Teaching (SPOT) evaluation is a requirement for all organized classes at UNT. This short survey will be made available to you near the end of the semester. Please make sure you take this chance to comment on how this class is taught. Extra credit will be given to students who take the survey and provide a proof of completion.  
An announcement will be made in class when the survey is available which should be from **November 18 to December 5** for this semester.

**Extra Help**:  
**PLEASE DO NOT WAIT UNTIL THE LAST MINUTE!!!**  
If you are having trouble with this course, please come see me during office hours or by requesting an appointment.

"The road to success is one that you do not have to travel alone."

**Course Outline**

*Note: The dates and topics below are tentative and are subject to change.*
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29-Aug</td>
<td>Course Introduction, Discussion on UNT EE Curriculum, Basic Electronics</td>
<td>Assignment 1 – Career Goal, Basic Electronics</td>
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<tr>
<td>2</td>
<td>05-Sep</td>
<td>Lab Safety, Engineering Design – Introduction Introduction to Simple Circuit Building</td>
<td>Assignment 2 – Degree Audit, Engineering Design</td>
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| 3    | 13-Sep | Effective Oral Communications, **(Select Project Teams)**
Team and Teamwork, Lab Equipment, Introduction to Mini-Project | Assignment 3 – Lab Report, Lab Equipment, Teamwork |
| 4    | 19-Sep | Introduction: Astable Multi-vibrator Circuit, Introduction to Circuit Soldering | Assignment 4                                    |
| 5    | 26-Sep | Project Management, Behavioral Models, Introduction to Lab Kit,       | Mini-Project Presentation & Report               |
| 6    | 03-Oct | **Mini-Project - Presentations**                                     |                                                 |
| 7    | 10-Oct | Ohm’s Law                                                             | Assignment 5 – Lab Report                       |
| 8    | 17-Oct | Logic Gates
Introduction to Multisim/DSCH                                    | Assignment 6 – Multisim/DSCH                    |
| 9    | 24-Oct | Introduction to MATLAB
Introduction to Final Project                                           | Assignment 7 – MATLAB Final Project Proposal    |
| 10   | 31-Oct | Engineering Design – Project Selection, MATLAB                         | Assignment 8 – MATLAB                           |
| 11   | 07-Nov | Engineering Design – Design & Testing, MATLAB                          | Assignment 9 – MATLAB                           |
| 12   | 14-Nov | Globalization, Contemporary Issues, IEEE Standards, Professionalism & Ethics | Assignment 10                                  |
| 13   | 21-Nov | **THANKSGIVING (NO CLASS)**                                           |                                                 |
| 14   | 28-Nov |                                                                      |                                                 |
| 15   | 05-Dec | Final Project Presentation and Report                                  |                                                 |
| 16   | 12-Dec | 1:30 – 3:30, Final Exam                                               |                                                 |
|      |        | **END OF TERM**                                                       |                                                 |