EENG 3520-001 Electronics II

Instructor:  Shuping Wang  
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Phone:  940-369-8895  
Email:  shuping@unt.edu  

Fall 2021  
Time:  (MoWe) 11:30am - 12:50pm  
Meeting Place:  NTDP D201  
Office Hours:  (TuTh) 4:00pm - 5:30pm  

GA:  Gollapudi, Sri Srujan  
Office Hours:  Th 2:00pn – 4:00pm (Room B245)  
Email:  srisrujangollapudi@my.unt.edu  

Course Description

This course is a continuation of EENG 3510 (Electronics I). Topics include single- and multi-stage amplifier, differential amplifier, feedback, and frequency response. The goals of this course are to expand the students’ knowledge of basic electronics, to provide the students the design and analysis of advanced analog electronics circuits, and to expose the students to a variety of tradeoffs for practical electronics design.

Course Requirements

Face Coverings
UNT encourages everyone to wear a face covering when indoors, regardless of vaccination status, to protect yourself and others from COVID infection, as recommended by current CDC guidelines. Face covering guidelines could change based on community health conditions.

Attendance
Attendance is mandatory. Lecture periods will be utilized to present principles and theory of the course topics. Class participation and discussion is expected in these sessions.

If you are experiencing any symptoms of COVID-19 (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to campus. UNT also requires you to contact the UNT COVID Team at COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure.

Homework
Homework will be assigned to assess understanding and reinforce the materials covered in lecture.
- Homework needs to be uploaded to Canvas at the due date/time.
- Homework turned in late will be penalized 50%. No homework accepted after 24 hours.
- Students have one week to contest any grade once grade posted.
Prerequisites
EENG 3510 Electronics I.

Required Text

Exams
There will be three exams (this includes the final exam), each worth 100 points. Exams will be based on text readings, handouts, class exercises, and class lectures and discussions. Students are responsible for all text material, regardless of whether we review the text material in class or not.

Missed Exams
There are no make-up Tests. If you cannot take the test for any reason, the weight of the test will be put onto the final, so that the final is worth 55% of your grade. Make-up exam accommodations for the Final Exam will only be made if you have a documented university excused absence (refer to UNT Policy 06.039).

Grading Elements and Weights
<table>
<thead>
<tr>
<th>Element</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework:</td>
<td>20%</td>
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<tr>
<td>Test 1:</td>
<td>25%</td>
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<tr>
<td>Test 2:</td>
<td>25%</td>
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<tr>
<td>Final Examination:</td>
<td>30%</td>
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Grade Distribution

<table>
<thead>
<tr>
<th>Points</th>
<th>Letter Grade</th>
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<tbody>
<tr>
<td>90.0% - 100%</td>
<td>A</td>
</tr>
<tr>
<td>80.0% - 89.9%</td>
<td>B</td>
</tr>
<tr>
<td>70.0% - 79.9%</td>
<td>C</td>
</tr>
<tr>
<td>60.0% - 69.9%</td>
<td>D</td>
</tr>
<tr>
<td>59.9% &amp; Below</td>
<td>F</td>
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UNT Policies

ODA Policy
UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one’s specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to
implementation in each class. For additional information see the ODA website (https://disability.unt.edu/).

Academic Integrity Policy
According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)
The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

Tentative Course Outline
- Building Blocks of Integrated-Circuit Amplifiers (8/23, 8/25, 8/30, 9/1, 9/8)
- Differential and Multistage Amplifiers (9/13, 9/15, 9/20, 9/22)
- Test 1 (Monday, 9/27)
- Frequency Response (9/29, 10/4, 10/6, 10/11)
- Feedback (10/13, 10/18, 10/20, 10/25)
- Test 2 (Monday, 11/1)
- Output Stages and Power Amplifiers (10/27, 11/3, 11/8, 11/10)
- Review (11/30)
- Final Exam: (Monday, 12/07, 10:30am-12:30pm)