Solid State Circuits CETT 1441 1A1

CREDIT
4 Semester Credit Hours (3 hours lecture, 4 hours lab)

MODE OF INSTRUCTION
Hybrid

PREREQUISITE/COREQUISITE:
Prerequisite CETT 1403 & CETT 1405

COURSE DESCRIPTION
A study of various devices incorporated in circuits and their applications. Emphasis on circuit construction, measurement, and analysis.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to
- Analyze circuit operation with various semiconductor device application.
- Measure, test, and troubleshoot circuits containing various semiconductor devices.
- Describe the AC small signal development from input to output of a FET voltage follower/configuration.
- Describe the AC small signal development from input to output of a BJT push-pull amplifier.

INSTRUCTOR CONTACT INFORMATION
Instructor: Minus Hargrave
Email: mjhargrave@lit.edu
Office Phone: 409-247-4883
Office Location: PATC 209
Office Hours: MW 7:00am–11:00am, additional hours posted on instructor’s office door

REQUIRED TEXTBOOK AND MATERIALS
Solid State Devices and Systems by Gary Rockis, American Technical Publishers
ISBN 978-0-8269-1637-2

Approved: CH 08/17/2023
ATTENDANCE POLICY
If you are not here that day then you are absent. There are no excused absences.

If you miss MORE THAN 20% of classes you will receive an F for the semester.

(Example: 30 days of class = 6 days. 7th day = F)

DROP POLICY
If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an “F” in the course.

COURSE CALENDAR

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<th>TOPIC</th>
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<td>Class policies</td>
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<td>Week 9/10</td>
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<td>Week 12</td>
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<td>Week 13</td>
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COURSE EVALUATION
Final grades will be calculated according to the following criteria:

- Classwork 20% of total grade
- Labwork 20% of total grade
- Quizzes 25% of total grade
- Exams 35% of total grade
GRADE SCALE
- 90-100  A
- 80-89  B
- 70-79  C
- 60-69  D
- 0-59  F

TECHNICAL REQUIREMENTS
The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT
The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles’ Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT
It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the LIT Catalog and Student Handbook. The LIT Catalog and Student Handbook may be accessed at www.lit.edu. Please note that the online version of the LIT Catalog and Student Handbook supersedes all other versions of the same document.

STARFISH
LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.
ADDITIONAL COURSE POLICIES/INFORMATION
TURNED IN WORK RULES

1. All work will be folded lengthwise with content (sheet # 1) on inside.
2. *Name, course and section number, and date* will go on outside. **DO NOT WRITE NAME ON THE INSIDE.**
3. All assignments will be stapled *separately* and turned in separately. (NOT all stapled together.)
4. Multiple choice letter answers are to go in the blank next to the question number.
5. All work will be done in **PENCIL. WORK DONE IN INK WILL NOT BE ACCEPTED.**
6. Name and answers must be **legible.**