

The University of Texas at Tyler
Department of Electrical Engineering

Course: EENG 3106. 001-80630 – Electronic Circuit Analysis I Laboratory

COURSE OUTLINE

Course
Coordinator:

Dr. Md Masud Rana
Assistant Professor, Department of Electrical Engineering
Office: RBN 2013
Email: mrana@uttyler.edu
Office Hours: Wednesday 2-5:30 PM
In person, Email, and Canvas Discussion Boards

Prerequisite or co-requisite: EENG 3306 (Electronic Circuit Analysis I)

Lab time: Wednesday- 2:00–4:45 PM

Place: TBA

Teaching Assistant: TBA
Email:
Office Hours:

Grading Policy:

Lab Assignments	60 %	No. of Labs – 6
Quiz	10%	No. of Quiz - 2
Final Exam	25%	December 3, 2024
Participation	5%	
Total	100%	

Semester Schedule:

Date	Laboratory activities	Assignment Due
Sept. 2	<i>Introduction to Electronics</i>	
Sept. 9	Introduction to MultiSim	<i>Quiz-1</i>
Sept. 16	<i>Operational amplifier designs</i>	<i>Quiz-2</i>
Sept. 23	<i>Operational amplifier designs</i>	Lab-1: Simulation for <i>Operational amplifier designs</i>
Sept. 30	<i>Diode IV characteristics</i>	
Oct. 7	<i>Diode IV characteristics</i>	Lab-2: Simulation for <i>Diode IV characteristics</i>

Oct. 14	<i>Diode rectifier and wave shaping circuits</i>	
Oct. 21	<i>Diode rectifier and wave shaping circuits</i>	Lab-3: Simulation for <i>Diode rectifier and wave shaping circuits</i>
Oct. 28	<i>MOSFET IV characteristics</i>	Lab-4: Simulation of <i>MOSFET IV characteristics</i>
Nov 4	<i>BJT IV characteristics</i>	Lab-5: Simulation of <i>BJT IV characteristics</i>
Nov. 11	<i>Common-emitter amplifier</i>	
Nov. 18	<i>Common-emitter amplifier</i>	Lab-6: Simulation for Common-emitter amplifier
Nov 25	<i>Thanksgiving Break</i>	
Dec 2	<i>Final Exam</i>	

Important course management information:

1. All assignments are to be submitted through Canvas. No hard copies will be accepted.
2. Students can form group of 2-3. The roster will be posted by the Instructor.
3. Components for all laboratories (except for *Operational amplifier designs* and *Common-emitter amplifier*) are available in the parts kit and there should ordinarily be no need to obtain additional components from the cabinets. However, values of $\pm 5\%$ resistances between 1Ω and 1Meg , and resistors not available in the kit will be supplied on request for these two experiments.
4. Credit for the laboratory will be withheld until components are returned and will be reduced if the components are returned late.
5. Circuits are to be disconnected and parts returned to the parts kits at the conclusion of each experiment. Tools and hand-held digital multimeters are to be returned to the laboratory cabinets *at the end of each laboratory session*.
6. Simulation results for a given experiment are due by 5 PM on the submission day.

Grading: Each assignment carries 50 points credit. 0 points if submitted after the due date.

Grading scale: 90-100– A; 80-89–B; 70-79–C; 60-69 – D; <60 – F. Final scores will be rounded to the nearest integer.

In-Person Lab Policy: If you are planning to attend the classes in-person, FACE MASKS are MANDATORY during the entire lab hours. Please be responsible in terms of social distancing. For detailed instructions on the University’s policies, visit: <https://www.uttyler.edu/coronavirus/>

Patriot e-mail: All students at UT-Tyler have been given Patriot e-mail accounts with addresses of the form:

<user name>@patriots.uttyler.edu

Any e-mail messages sent either individually or to the class as a whole will be sent to Patriot e-mail accounts.

Course and instructor evaluations: Student evaluations of both the course and the instructor at the end of the course are a valuable means of assessment; filling them out is strongly encouraged. Departmental evaluation forms will be presented at the last regularly-scheduled class meeting.

Academic misconduct: Academic misconduct will not be tolerated. Examples of academic misconduct include (but are not limited to) submitting the work of others as one's own (plagiarism) and doing work intended to be submitted by another person. *Copying materials from on-line sources for your laboratory reports without attribution is plagiarism!*

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Grade Replacement/Forgiveness and Census Date Policies :

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability Services

In accordance with federal law, a student requesting accommodation must provide documentation of his/her disability to the Disability Services counselor. If you have a disability, including a learning disability, for which you request an accommodation, please contact the Disability Services office in UC 3150, or call (903) 566-7079.

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Happy Learning!