The University of Texas at Tyler Department of Electrical Engineering

EENG 3301 Electrical Engineering Circuits, Systems, and Applications (Required for Mechanical Engineering Majors)

Syllabus

Course Description:	The fundamentals of electrical and electronic components and circuits, circuit analysis, electric motors and generators, fundamentals of electric power systems. Three hours of lecture per week. (Not for electrical engineering majors)		
Course credit:	3 hours		
Class Meeting Days and Location:	B210 9:30AM-10:50AM Tu, TH		
Instructor(s):	Course coordinator		
	Dr. Seyed Ghorshi, Electrical Engineering Office: A 215 Phone: 903-566-6137 E-mail: aghorshi@uttyler.edu Website: http://www.uttyler.edu/ee		
Required Materials	Allan R. Hambley, Electrical Engineering Principles and Applications, 6th Edition, Pearson, 2013.		
Recommended Materials:	None		
Course Student Learning Objectives (SLOs)	 Analyze AC and DC circuits of moderate complexity Attain basic understanding of power electronics circuits and applications Attain basic understanding of operational amplifier Analyze basic operational amplifier circuits Apply frequency domain techniques to circuit analysis Attain basic understanding of electric machines and their applications Attain basic understanding of electric power systems 		
	WEEK	TOPICS COVERED	
Course Schedule/Cont ent	1 2 3 4 5 6 7 8 9 10 11 12 13 14	Fundamentals of Electric Circuits Fundamentals of Electric Circuits Fundamentals of Electric Circuits Network Analysis Network Analysis Frequency Response Frequency Response MIDTERM EXAM Operational Amplifiers Operational Amplifiers Electrical Machines Electrical Machines Fundamentals of Electric Power Systems Fundamentals of Electric Power Systems FINAL EXAM	

Class Withdrawal	The withdrawal policy outlined by the Registrar will be strictly followed. The policy may be found at the following website:
	http://www.uttyler.edu/registrar/registration/withdrawals.php
withurawai	The last day to withdraw from courses without penalty is the census
	date.
	Homework and project reports will be due in class or lab one week
	after assignment. Project reports should be written as per the
	guidelines provided in class. A 25% penalty will be assessed per week
	for late project reports and homework.
Cooding Dalian	Grades will be assigned based on the total score as per the distribution
Grading Policy	below and the following scale out of a 100 total:
and Criteria to	
Determine	A: >90, B: >80, C: >70, D: >60, F: <60
Final Grade	
	Any deviation from the above policy such as scaling or curving to
	calculate the individual item or final scores will be at the sole
	discretion of the instructor and performed by the instructor uniformly
	for all students in the class section.
Examination	
and/or Major	Quizzes
Assessment	Mid-Term Examination
Policies and	Homework
Procedures	Final Examination
	The progressive nature of the class means that perfect attendance is
Attendance	recommended if a good grade is desired. Makeup quizzes, exams or
and Make-up	projects will only be provided for valid absences and at the sole
Policy	discretion of the instructor.
	Every member of the UT Tyler community joins together to embrace:
UT Tyler	Honor and integrity that will not allow me to lie, cheat, or steal,
Honor Code	nor to accept the actions of those who do.
	To know and understand the policies that affect your rights and
	responsibilities as a student at UT Tyler, please follow this link:
Students'	http://www.uttyler.edu/wellness/rightsresponsibilities.php.
Rights and	icep.//www.uccyrer.edu/weimess/rightsresponsibilities.php.
Responsibilitie	Students are responsible for reviewing the syllabus and abiding by all
S	that is within. Students are encouraged to seek clarification within the
	first week of the course.
	We respect the right and privacy of students 21 and over who are duly
	licensed to carry concealed weapons in this class. License holders are
Campus Carry	expected to behave responsibly and keep a handgun secure and
Janipus Janiy	concealed. More information is available at
	http://www.uttyler.edu/about/campus-carry/index.php
	All forms of tobacco will not be permitted on the UT Tyler main
	campus, branch campuses, and any property owned by UT Tyler. This
	applies to all members of the University community, including
	students, faculty, staff, University affiliates, contractors, and visitors.
UT Tyler a	Forms of tobacco not permitted include cigarettes, cigars, pipes, water
Tobacco-Free	pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless
University	tobacco, snuff, chewing tobacco, and all other tobacco products. There
Giliversity	are several cessation programs available to students looking to quit
	smoking, including counseling, quitlines, and group support. For more
	information on cessation programs please visit
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	www.uttyler.edu/tobacco-free.

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. (For Fall, the Census Date is Sept. 12.) 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 (Sept. 12th) is the deadline for many forms and enrollment actions of which students need to be aware. 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.
Student Accessibility and Resources	In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources (SAR) office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office

	located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@uttyler.edu .		
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.		
Student Standards of Academic Conduct			

	 substituting for another person, or permitting another person 	
	to substitute for oneself to take a course, a test, or any course-	
	related assignment;	
	 paying or offering money or other valuable thing to, or 	
	coercing another person to obtain an unadministered test,	
	test key, homework solution, or computer program or	
	information about an unadministered test, test key, home	
	solution or computer program;	
	falsifying research data, laboratory reports, and/or other	
	academic work offered for credit;	
	• taking, keeping, misplacing, or damaging the property of The	
	University of Texas at Tyler, or of another, if the student	
	knows or reasonably should know that an unfair academic	
	advantage would be gained by such conduct; and	
	misrepresenting facts, including providing false grades or	
	resumes, for the purpose of obtaining an academic or financial	
	benefit or injuring another student academically or	
	financially.	
	ii. "Plagiarism" includes, but is not limited to, the appropriation,	
	buying, receiving as a gift, or obtaining by any means	
	another's work and the submission of it as one's own	
	academic work offered for credit.	
	iii. "Collusion" includes, but is not limited to, the unauthorized	
	collaboration with another person in preparing academic	
	assignments offered for credit or collaboration with another	
	person to commit a violation of any section of the rules on	
	scholastic dishonesty.	
	iv. All written work that is submitted will be subject to review by	
	SafeAssign TM , available on Blackboard	
	UT Tyler Writing Center (903.565.5995),	
	writingcenter@uttyler.edu	
UT Tyler	UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu	
Resources for	The Mathematics Learning Center, RBN 4021, this is the open	
Students	access computer lab for math students, with tutors on duty to	
	assist students who are enrolled in early-career courses.	
	 UT Tyler Counseling Center (903.566.7254) 	
Prerequisites	PHYS 2326 – University Physics II	
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