The University of Texas at Tyler Department of Electrical Engineering

EENG 4311 – Signals and Systems

Syllabus

Catalog Description:

Types of signals; Types of systems; Properties of systems; Convolution; Fourier series, Fourier transforms; Laplace transforms; Difference equations; Z-transform; Discrete-time systems; Applications and design concepts.

Prerequisites:		
EENG 2101, and EENG 3305		
Credits: (3 hours lecture, 0 hours laboratory per week)		
Text(s): B. P. Lathi, Linear Systems and Signals, 2 nd edition, Oxford, 2005.		
Additional Material: Class Notes		
Course Coordinator: Ali Ghorshi, PhD		

Topics Covered: (paragraph of topics separated by semicolons)

Signal and System Modeling; Time domain modeling of systems; Fourier Series; Fourier Transform and its applications; The Laplace Transform; Applications of the Laplace Transform; Z-Transform

Evaluation Methods: (only items in dark print apply):

- 1. Examinations / Quizzes
- 2. Homework
- 3. Report
- 4. Computer Programming
- 5. Project
- 6. Presentation
- 7. Course Participation
- 8. Peer Review

Course Learning Outcomes¹: By the end of this course students will be able to:

¹Numbers in brackets refer to method(s) used to evaluate the course objective.

- 1. Determine the circuit response to a periodic signal using the Fourier Series. (1)
- 2. Model linear time-invariant systems using convolution (1,2)
- 3. Describe how composite signals are used to determine the response of linear systems (1)
- 4. Utilize the Fourier Transform in the analysis of electronic circuits. (1)
- 5. Compute the signal energy using Parseval's Theorem (1)
- 6. Construct a proof for the frequency shifting theorem using the Fourier Transform (1)

- 7. Determine the stability of an LTI system through an analysis of the pole locations in the splane. (1)
- 8. Demonstrate what happens in the frequency domain when a continuous signal is sampled. (2)
- 9. Design an anti-alias filter for a sampled data system. (1)
- 10. Design a FIR filter using the frequency-sampling method (2,4)
- 11. Utilize the z-Transform to describe a discrete-time signal (1)
- 12. Write a paper on a contemporary issue related to signals and systems (3)
- 13. Design a discrete-time system using multipliers, adders, and delay elements (1)

Relationship to Student Outcomes (only items in dark print apply)²: This course supports the following Electrical Engineering Student Outcomes, which state that our students will possess:

- 1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics; [1, 3, 4, 6, 10, 11]
- 2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors; [2, 5, 7, 8, 9, 13]
- 3. an ability to communicate effectively with a range of audiences
- 4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;
- an ability to function effectively on a team whose members together provide leadership create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives:
- 6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions; [12]
- 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Contribution to Meeting Professional Component: (in semester hours)

Mathematics and Basic Sciences:	0	hours
Engineering Sciences and Design:	3.0	hours
General Education Component:	0	hours

Prepared By: Modified By:

R. Hippenstiel	Date:	14 Jan 2007
Hector A. Ochoa	Date:	7 Jan 2008
David Hoe		12 Jan 2014
Ali Ghorshi		11 Jan 2019
		6 Jan 2020

²Numbers in brackets refer to course objective(s) that address the Program Outcome.

The University of Texas at Tyler Department of Electrical Engineering

EENG 4311 Signals and Systems

Course Outline

Course Description:	This course covers the fundamentals of signal and system analysis, focusing on representations of discrete-time and continuous-time signals (singularity functions, complex exponentials and geometrics, Fourier representations, Laplace and Z transforms, sampling) and representations of linear, time-invariant systems (difference and differential equations, block diagrams, system functions, poles and zeros, convolution, impulse and step responses, frequency responses).
Course credit:	3 hours
Prerequisites	EENG 2101, and EENG 3305
Class Meeting Days and Location:	TBA 11:15 AM-12:10 PM M, W, and F
Instructor(s):	Course coordinator
	Dr. Ali Ghorshi, Electrical Engineering Office: A215 Phone: 903-566-6137 E-mail: aghorshi@uttyler.edu Office hours: TBA Zoom ID: 927 8508 6653, Passcode: 424050
Required Materials	B. P. Lathi, Linear Systems and Signals, 2nd edition, Oxford, 2005.
Recommended Materials:	Alan V. Oppenheim, Alan S. Willsky, with S. Hamid, Signals and Systems, 2nd edition, Pearson, 1997.
Materials.	1. Classification of Signals
Course Student Learning Objectives (SLOs)	1. Classification of Signals 2. Classification of Systems 3. Linear Time-Invariant (LTI) Systems 4. Continuous-time and Discrete-time Convolution 5. Fourier Series 6. Fourier Transforms 7. Fourier Analysis (Continuous) 8. Fourier Analysis (Discrete) 9. Two-sided Laplace Transform 10. One-sided Laplace Transform 11. The z-transform 12. Linear Feedback Systems
	WEEK TOPICS COVERED
Course Schedule/Conten t	1 Introduction to Signals 2 Introduction to Systems 3 Time domain analysis: Zero input Response 4 Time domain analysis: Zero state Response 5 Time domain analysis: Convolution 6 Frequency domain analysis: Laplace Transform
	7 Frequency Response of a LTI System
	8 Spectrum Representation

Pourier Transform			
11 Fourier Transform 12 Frequency Domain Transforms 13 Frequency Domain Transforms 14 Linear Constant Coefficient Difference Equations 15 The Z Transform 16 The Z Transform 16 The Z Transform 17 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 The last day to withdraw from courses is listed in the Academic Calendar. Homework and project reports will be due in Canvas one week after assignment. Project reports should be written as per the guidelines provided. A 25% penalty will be assessed for missing the submission deadline and an additional 25% penalty will apply per week for late project reports and homework. Any deviation from this rule will be at the sole discretion of the instructor. All submissions are required to be in Microsoft Word format with machine readable text and not images or other representations of text. This rule will be applied to all sections of the report including the appendices and program code with comments. All flowcharts and diagrams must be prepared using Microsoft Office and not by hand. Any attempts to defeat the plagiarism checking software by submission of documents that include images instead of body text or any other mechanism will result in a grade of zero. The instructor or responsible grader reserves all rights to make this judgement and reject a project report if the above rules are not followed. Any violations may result in ACADEMIC DISHONESTY charges to be filed against the student. Student waives all rights to a make-up exam if they miss a scheduled testing date. Any make-up testing will be at the sole discretion of the instructor. Student waives all rights to a make-up exam if they miss a scheduled testing date. Any make-up testing will be at the sole discretion of the instructor. Student waives all rights to a make-up exam if they miss a scheduled testing date. Any make-up testing will be at the so			
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A: >90, B: >80, C: >70, D: >60, F: <60 Any deviation from the above policy such as scaling or curving to calculate the individual item or final scores will be at the sole	and Criteria to Determine Final	Homework assignment of the submissing week for this rule. All submissing the submissing and diagram of the responsion of the submission of	rk and project reports will be due in Canvas one week after ent. Project reports should be written as per the guidelines at 25% penalty will be assessed for missing the on deadline and an additional 25% penalty will apply per late project reports and homework. Any deviation from will be at the sole discretion of the instructor. issions are required to be in Microsoft Word format with readable text and not images or other representations of a rule will be applied to all sections of the report including indices and program code with comments. All flowcharts rams must be prepared using Microsoft Office and not by y attempts to defeat the plagiarism checking software by on of documents that include images instead of body text or mechanism will result in a grade of zero. The instructor or ble grader reserves all rights to make this judgement and project report if the above rules are not followed. Any is may result in ACADEMIC DISHONESTY charges to be filed the student. Waives all rights to a make-up exam if they miss a scheduled atte. Any make-up testing will be at the sole discretion of the increase. Should be aware that absolute academic integrity is of every student in all undertakings at The University of Tyler. Failure to comply can result in strong university-penalties. All lab reports and assignments will be verified giarism checking software and violations will result in a zero for the lab report or assignment at a minimum, and stronger penalties such as a failing grade in the course and tic dishonesty report submitted to the university. All be assigned based on the total score as per the ion below and the following scale out of a 100 total: A: >90, B: >80, C: >70, D: >60, F: <60 ation from the above policy such as scaling or curving to

Examination and/or Major Assessment Policies and Procedures Attendance and Make-up Policy	Homeworks/Quizzes/Assignments 30% Midterm Examination 30% Final Examination 40% The progressive nature of the class means that perfect attendance is recommended if a good grade is desired. Makeup quizzes, exams or projects will only be provided for valid absences and at the sole discretion of the instructor. In order to take this class, integrated laboratory sessions and quizzes/exams, you will need the following items as specified below:
Computer Equipment Policy	 Windows 10 Computer or Mac running Windows virtualization software High-speed Internet connection Webcam (internal or external) MATLAB
Proctoring	The assessments in this online course will be proctored using ProctorU or two-way interactive Zoom sessions. Beyond the cost of initial equipment needed (e.g. a camera for your computer), there will not be any additional cost for proctoring. You will need to create a ProctorU account and install the ProctorU extension before attempting any assessment. To create a ProctorU account, follow the ProctorU tool within Canvas. Please make sure you are using the current version of Chrome or Firefox and download the ProctorU extension available at http://bit.ly/proctoruchrome or https://www.proctoru.com/firefox. In order to use ProctorU, you will need the following: • High-speed Internet connection • Webcam (internal or external) • Windows, Mac, or Chrome Operating System • Up-to-date Chrome or Firefox browser and ProctorU extension installed • Valid photo ID • Quiet environment to take your assessment You can visit the Test Taker Resource Page for additional information at https://bit.ly/ProctorMe
UT Tyler Honor Code	Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.
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 . Students are responsible for reviewing the syllabus and abiding by
	all that is within. Students are encouraged to seek clarification within the first week of the course.

Campus Carry	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 expected to behave responsibly and keep a handgun secure and concealed. More information is available at http://www.uttyler.edu/about/campus-carry/index.php
UT Tyler a Tobacco-Free University	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. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There 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 www.uttyler.edu/tobacco-free .
Grade Replacement/Fo rgiveness 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 https://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 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 of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or you have a history of modifications or accommodations in a previous educational environment, you are encouraged to visit https://hood.accessiblelearning.com/UTTyler and fill out the New Student application.
	The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with Cynthia Lowery, Assistant Director of Student Services/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at http://www.uttyler.edu/disabilityservices, the SAR office located in the University Center, # 3150 or call 903.566.7079.
Student Absence	Students who anticipate being absent from class due to a religious
due to Religious	observance are requested to inform the instructor of such absences
Observance	by the second class meeting of the semester.
Student Absence	If you intend to be absent for a university-sponsored event or activity,
for University-	you (or the event sponsor) must notify the instructor at least two
Sponsored	weeks prior to the date of the planned absence. At that time the
Events and	instructor will set a date and time when make-up assignments will be
Activities	completed. It is the policy of The University of Texas at Tyler to protect the
Social Security and FERPA Statement	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	Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. i. "Cheating" includes, but is not limited to: • copying from another student's test paper; • using, during a test, materials not authorized by the person giving the test; • failure to comply with instructions given by the person administering the test;

- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
 using buying stealing transporting or soliciting in whole
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- 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 Unicheck $^{\text{TM}}$, available on Canvas

UT Tyler Resources for Students

- UT Tyler Writing Center (903.565.5995), writingcenter@uttyler.edu
- UT Tyler Tutoring Center (903.565.5964), tutoring@uttyler.edu
- The Mathematics Learning Center, RBN 4021, this is the open 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)

Recording of Class Sessions	Class sessions may be recorded by the instructor for use by students enrolled in this course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in this course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for the use of students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.
Important Covid-19 Information for Classrooms and Laboratories	Students are required to wear face masks covering their nose and mouth, and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by Procedures for Fall 2020 Return to Normal Operations. The UT Tyler community of Patriots views adoption of these practices consistent with its Honor Code and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff. Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be
Laboratories	excused from class and should stay at home and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu.