

EENG 3314 – Design Methodology for Engineers

Course Syllabus

Semester / Year	Spring 2019	
Catalog Description	Introduction to analysis and design of electrical engineering systems. Modeling, simulation and verification of sub-systems and systems with modern engineering tools. Comparison and evaluation of alternative system designs with electrical engineering examples.	
Prerequisites	EENG 3305 Pre-requisite, EENG 4308 – Automatic Controls and EENG 4311 – Signals and Systems Co-requisites	
Section number	031	
Instructor name	Fatemeh Kalantari	
Contact info	Email: fkalantari@uttyler.edu	
Class Type / Location	Face-to-face / HEC 2015	
Class Time	2:30PM-3:50PM Monday, Wednesday	
Office Hours	Thursdays 9-11 a.m.	
Credits	3 credits	
Required Textbook	Stormy Attaway, MATLAB, Third Edition: A Practical Introduction to Programming and Problem Solving, 3/E, Butterworth-Heinemann, 2013. ISBN-13: 978-0124058767 ISBN-10: 0124058760	
Optional References	Craig Lent, Learning to Program with MATLAB: Building GUI Tools, 1/E, Wiley, 2013. ISBN-13: 978-0470936443 ISBN-10: 0470936444	
Additional requirements	N/A	
Evaluation Method	Quizzes	25%
	Mid-Term Examination	25%
	Laboratory Projects	25%
	Final Examination	25%
Grading Policy / Scale	Letter grades Scale: A 90 – 100 B 80 – 89 C 70 – 79 D 60 – 69 F < 60	
Important events / dates	Census date: January 27 th Last day to withdraw: March 30 th Final date: Per published schedule by the registrar – TBD	

Attendance / Makeup policy	Regular attendance is imperative if you want to do well in this course. Therefore, any student incurs four unexcused absents or more during the 15-week semester will result in an instant F grade for the course. In case you have an excuse to miss a class, it is your responsibility to keep up with the class work and be informed of all announcements made in the class on homework, tests etc.												
Course Learning Outcomes / ABET & PEOs relation	By the end of this course students will be able to: <ol style="list-style-type: none"> 1. Explain basic analysis and design principles for electrical engineering sub-systems and systems. 2. Compare and evaluate alternative system designs with electrical engineering examples. 3. Demonstrate modeling, simulation and verification of sub-systems and systems. 4. Utilize modern software to design and simulate systems. 5. Write laboratory reports with experimental results demonstrating visual and written communication skills. 												
Tentative Topics	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Introduction</td></tr> <tr><td>Mathematical Modeling of electric circuit</td></tr> <tr><td>Numerical simulation of Simple electric circuits</td></tr> <tr><td>Design of first order and second order circuits: Transient and Steady State</td></tr> <tr><td>Simulation of State Space Model</td></tr> <tr><td>Review of topics studied in Week 1 through Week 6</td></tr> <tr><td>Filter Design</td></tr> <tr><td>Oscillator Design</td></tr> <tr><td>Simulation of electric machines</td></tr> <tr><td>Escalator Controller</td></tr> <tr><td>Inverted Pendulum</td></tr> <tr><td>Controllers</td></tr> </table>	Introduction	Mathematical Modeling of electric circuit	Numerical simulation of Simple electric circuits	Design of first order and second order circuits: Transient and Steady State	Simulation of State Space Model	Review of topics studied in Week 1 through Week 6	Filter Design	Oscillator Design	Simulation of electric machines	Escalator Controller	Inverted Pendulum	Controllers
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Homework Policy:

1. Homework will be assigned each week and is due in a week unless other instructions are given. The homework problems will be posted in Canvas. You need to scan and upload your answers to the assigned section in Canvas. It will be graded technically and overall quality.
2. Students may discuss their homework solutions with one another, but each student must submit their own, independent solution (i.e. you may not just copy someone else's homework).
 - ✓ All homework should include a clear statement of the problem to be solved, indicating the known and unknown parameters. Engineering paper is preferred.
 - ✓ Number all equations, indicate and describe variable substitutions and mathematical

- procedure, and highlight (enclose, or box) your answers.
- ✓ Always indicate appropriate units in answer and study them to determine if it is reasonable.

Quizzes:

There will be announced and unannounced quizzes during the semester to check your class activity and performance during the semester. They can be in groups or individually and are graded towards your final exam.

Exams:

1. Answer reflecting the solutions manual are not considered correct and will be turned in to the Dean of Students as copying.
2. Absolutely no cell phones, graphing calculators, laptops, iPads, iPods, smart watches, or any other smart technology devices are allowed in exams.
3. Make-ups for in-class exams for documented emergencies.
4. Exam grades will be returned, students will be allowed to view their exams, and the professor will keep original exams.
5. Any grade changes must be resolved no later than 24 hours after exam has been handed out. If you are absent, then it is your responsibility to meet with me to see your exam grade.

University Policies:

UT Tyler Honor Code

Every member of the UT Tyler community joins 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>

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, guidelines, and

group support.

For more information on cessation programs please visit 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. 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 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.

Disability/Accessibility Services

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 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

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 or part the contents of an administered 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 instructor 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 administered test, test key, homework solution, or computer program or information about an administered 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 plagiarism software.

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
- UT Tyler Counseling Center (903.566.7254)

Tentative Course Topics	DATE	TOPICS COVERED
1	14-Jan-2019	Introduction
2	21-Jan-2019	Basic Electric Circuit Design using analytical approaches
3	28-Jan-2019	Mathematical Modeling of electric circuit
4	4-Feb-2019	Numerical simulation of Simple electric circuits
5	11-Feb-2019	Design of first order and second order circuits: Transient and Steady State
6	18-Feb-2019	Simulation of State Space Model
7	25-Feb-2019	Review of topics studied in Week 1 through Week 6
8	4-Mar-2019	Filter Design
9	11-Mar-2019	SPRING BREAK
10	18-Mar-2019	Oscillator Design
11	25-Mar-2019	Simulation of electric machines
12	1-Apr-2019	Escalator Controller
13	8-Apr-2019	Inverted Pendulum
14	15-Apr-2019	Controllers
15	29-Apr-2019	Final Exam Review
16	6-May-2019	FINAL EXAM

EENG 3314 – Design Methods for Electrical Engineering

Course Syllabus-Outline

Semester / Year	Spring 2019
Catalog Description	Introduction to analysis and design of electrical engineering systems. Modeling, simulation and verification of sub-systems and systems with modern engineering tools. Comparison and evaluation of alternative system designs with electrical engineering examples.
Prerequisites	EENG 3305 Pre-requisite, EENG 4308 – Automatic Controls and EENG 4311 – Signals and Systems Co-requisites
Section number	031
Instructor name	Fatemeh Kalantari
Contact info	Email: fkalantari@uttyler.edu
Class Type / Location	Face- to- face, HEC 218
Class Time	Tuesday Thursday 11:00 - 12:20 pm
Office Hours	Wednesday 1-2 pm
Credits	3 credits
Required Textbook	Steven T. Karris, Circuit Analysis I & II with MATLAB, Computing and Simulink/Sim Power Systems Modeling , ISBN-10: 1-934404-18-7 ISBN-13: 978-1-934404-18-8 Stormy Attaway, Matlab, Third Edition: A Practical Introduction to Programming and Problem Solving, 3/E , Butterworth-Heinemann, 2013. ISBN-13: 978-0124058767 ISBN-10: 0124058760
Optional References	Nilsson & Riedel, Tenth Edition, Electric Circuits , ISBN-13:978-0-13-376003-3 ISBN-10:0-13-376003-0
Additional requirements	MATLAB.
Evaluation Method	Midterm 1 25% Midterm 2 25% Final Exam 35% Project 10% Assignments 5%
Grading Policy / Scale	Scale: A 90 – 100 B 80 – 89 C 70 – 79 D 60 – 69 F < 60
Important events /dates	Final date: Per published schedule by the registrar

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Course Learning Outcomes / ABET & PEOs relation	By the end of this course students will be able to: <ol style="list-style-type: none"> 1. Describe electric circuits using MATLAB programming, 2. Design and analyze Basic electrical circuit using analytical solutions, 3. Implement mathematical modeling of electric circuits, 4. Perform numerical simulation of simple electric circuits, 5. Design and analyze of first order and second order circuits, 6. Simulate transient and steady state response model of electric circuits, 7. Explain and model phasor circuit analysis, 8. Implement and analyze Electric filters, 9. Explain and model resonance.
Tentative Topics	<ol style="list-style-type: none"> 1. Programming with MATLAB. 2. Basic electrical circuit design using analytical solutions. 3. Mathematical modeling of electric circuit. 4. Numerical simulation of simple electric circuits. 5. Design of first order and second order circuits 6. Transient and steady state response model of electric circuits. 7. Phasor circuit analysis. 8. Electric Filters. 9. Resonance.

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 - 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 administered test, test key, homework solution, or computer program or information about an administered 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.
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