Dr. Bob Throne
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GRADING POLICY

Each of Three Exams	12%
Final Exam	24%
Labs	10%
Homework	15%
Quizes	10%
Lab Practical	5%

Notes:

(1) You must have a passing average (greater than or equal to 60%) on the exams to pass the class!

(2) Homework assignments are generally ***due at the beginning of class on FRIDAY***. On weeks with exams, homework will be generally due on Thursday. No late homework will be accepted without prior approval.

(3) You must acceptably complete each lab to pass the class.

(4) Many of the homework problems will require you to use Matlab or Simulink as part of the problem. If you do not do these parts of the problem, do not expect to receive credit for any parts of the problem.

(5) You are expected to do your own work. You can certainly talk with each other and help each other, but the work you hand in should be your own. As an example, if two people hand in the same Simulink plot and both came from the same directory, neither will receive any points!

(6) Unless specifically told otherwise on a particular problem, you are expected to work out the problem by hand (or use Matlab). *If you write on your assignment that you used Maple and are copying the answer, expect to get no points.* You can use Maple to check your answers. You cannot turn in any Maple code or plot as part of the solution to a problem. ***You will only be allowed to use calculators on the first exam.***

(7) While each exam (except the final) will focus on material since the previous exam, you are responsible for all previous material. *Anything covered from the beginning of class up until the time of an exam is fair game for the exam.*

(8) In general, I will give you answers to problems, but ***I will not hand out or post solutions*** If you have questions or cannot get the correct answer, you need to come and see me. Your homework solutions will be your primary source for reviewing material before each exam, so it is very important that you do the homework.

Quizzes: Most weeks we will have a multiple choice answer quiz, usually (though not always) on Friday. Usually before the quiz a "practice quiz" will be posted to give you an idea of the kinds of problems you are expected to be able to solve on that weeks quiz.

Labs: Each person will turn in their own lab work. You can certainly help each other out, but each person is responsible for doing and understanding the lab. We will use Simulink, Matlab, and Digilent EE boards each week, so plan to bring your laptops. Labs memos will be e-mailed to me, along with any necessary code as an attachment. *Labs are generally due at the end of the day on your lab day. Labs turned after 5 PM the next business day will have their grade reduced by 50%. Labs turned in after 5 PM two business days after their lab day will be given a 0. If there are extenuating circumstances let me know.*

Class 1 (9/6) – First Order Circuits

Class 2 (9/9) – Time Constants, Static Gain
Class 3 (9/10) – Solving First Order Differential Equations
Lab 1 - Concept Inventory, Introduction to Simulink and Matlab
Class 4 (9/13) – Second Order Circuits, Standard Form

Class 5 (9/16) – Solving Second Order Differential Equations
Class 6 (9/17) – Response of Underdamped Systems
Lab 2 - Introduction to Digilent EE Boards, Time Constants, Settling Time, Percent Overshoot
Class 7 (9/20) – System Properties: Linearity

Class 8 (9/23) – System Properties: Linearity
Class 9 (9/24) – System Properties: Time-Invariance, Causality
Lab 3 – Second Order Systems and Fourier Series
Class 11 (9/27) – **Exam 1**

Class 10 (9/30) – System Properties: Memoryless, Invertabile, BIBO stability
Class 12 (10/1) – LTI Systems, Impulse Response
Lab 4 – System Linearity and a Common Emitter Amplifier
Class 13 (10/4) – Convolution

Class 14 (10/7) – Convolution Examples
Class 15 (10/8) – Convolution Examples
Lab 5 – Lab Practical
Class 16 (10/11) – BIBO Stability, Causality, Interconnected Systems

Class 17 (10/14) – Laplace Transform of Circuit Elements
Class 18 (10/15) **– Exam 2**
Lab 6 – Transfer Functions, Optical Communications

Fall Break

Class 19 (10/21) – Transfer Functions, Impulse Response
Class 20 (10/22) – Poles and Zeros, Partial Fractions
Lab 7 –Simulation of Feedback Control Systems in Matlab and Simulink
Class 21 (10/25) – Partial Fractions

Class 22 (10/28) – Characteristic Modes, Asymptotic Stability, Initial and Final Value Theorems
Class 23 (10/29) – Block Diagrams, Feedback Systems
Lab 8 – Implementation of a Feedback Control System
Class 24 (11/1) – Steady State Response to a Periodic Input

Class 25 (11/4) – Computing $H(j\omega_o)$ from the Pole-Zero Diagram
Class 26 (11/5) – Bode Plots
Lab 9 – Experimental Construction of Bode Plots
Class 27 (11/8) – **Exam 3**

Class 28 (11/11) – Bode Plots
Class 29 (11/12) – Bode Plots
Lab 10 – Lowpass, Highpass, and Bandpass Filters
Class 30 (11/15) **–** Filter Types, Bandwidth of a Filter