

INITIAL COURSE MEMO

EEL 5542 – Random Processes I

Fall 2001

Location (on campus): Room ENGR 388 / Building CEBA I
Live session: Tue/Thu 16:00-17:15

Catalog Data

EEL 5542 (3 credit hours)

Random Processes I

Prerequisites: EEL 3552 and STA 3032

Elements of probability theory; random variables and stochastic processes.

Textbook

Probability and Random Processes for Electrical Engineering, by Albert Leon-Garcia, Second Edition, Addison-Wesley, 1994.

Instructor

Dr. Georgios C. Anagnostopoulos

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Office hours: Tue/Thu 17:30-20:30

Objectives

The objective of this course is to examine the fundamental concepts of probability theory and their wide applicability in a variety of engineering problems. After the axiomatic approach to probability theory is discussed, the concepts of the random variable and the random process (stochastic process) will be thoroughly investigated. Then, various other topics are going to be treated in detail, such as correlation functions, spectral density, response of linear systems to random inputs, etc.

Grading Scheme

There will be three exams: two mid-term and a final. Most likely, mid-term exams are going to be take-home. On the other hand, the final exam is going to be comprehensive and in-class.

Homework is going to be assigned after the discussion of a significant topic is completed. Solutions for the homework problems will be made available either on-line or in the library reserve room a couple of days after the due date of the homework. Homework that is going to be turned in after solutions have been posted will not receive any credit. Off-campus students are strongly encouraged to confirm with me on the receipt of their homework and midterm exams. The score weighting scheme for homework and exams as well as the correspondence of final scores to final letter grades are depicted in the next two tables.

Score weighting	
Homework	15%
Midterm Exam 1	25%
Midterm Exam 2	25%
Final Exam	35%

Score to Letter Grade conversion	
89 and above	A
79-88	B
69-78	C
59-68	D
58 and below	F

Note

The aforementioned guidelines are approximate; making changes to them is up to my discretion after sufficient prior notice is given to you.

Please provide me by Thursday, August 23rd with some personal information as requested below:

NAME:

LOCATION:
(Main Campus, Brevard Campus, etc.)

PHONE:
(Optional, but very helpful in case something urgent occurs)

EMAIL:
(Please, provide me with an email address, whose related account you check or will check often)

MAJOR:

STUDENT STATUS:
(Undergraduate/Graduate)

WHY DID YOU ELECT THIS COURSE?