

ENGR 361: Statistical Analysis of Engineering Systems (Winter, 2010)

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**Class locations and times**

Instructor	Steven Weber (ECE)
Instructor email	sweber@ece.drexel.edu
Instructor office hour	Mondays 10-10:50am (Bossone 211)
Lecture times	Mondays and Wednesdays 9-9:50am
Lecture room	Randell Hall 323
Recitation	Fridays 9-9:50am (Randell Hall 323)
Teaching Assistant	Vijaya Pendyala
TA email	vp95@drexel.edu
TA office hours	TBD

**Description**

Probability, random variables, random samples, point estimation, statistical intervals.

**Textbook**

Title	Probability and statistics for engineering and the sciences
Author	Jay L. Devore
Publisher	Thomson
ISBN	0495382175
Edition	7th

**Course logistics**

- Website
  - We will use Drexel's **BB/Vista** course management website for this class extensively.
  - I will mail you important information regarding the class through this system. Please make sure you setup the system to forward BB/Vista emails to an account you check regularly.
  - Lecture notes, homework, solutions, etc. will be posted on the main course page, grouped by week.
  - The gradebook will hold your homework, worksheet, and midterm exam scores.
- Lectures
  - **Partial** lecture notes will be posted on the website **after** the lecture.
  - Website will indicate what sections of the book each lecture covered.
  - **Please** ask questions. If you are confused, then there is a very good chance someone else in the class is confused as well. Without questions I have little insight regarding class comprehension.
  - **Laptops** are not to be used during lecture without prior approval by the instructor. **Cell phones** are to be turned off or put in silent mode.
- Homework
  - HW is due **in class** one week after it is assigned.
  - HW may be handed in late (printed, delivered to the TA) up to one week following the due date for a 50% penalty.

- The first HW is practice, it **not** graded.
- We will grade **one** of the HW problems for each assignment, and we **may** indicate to you which HW problems are eligible for grading.
- Recitations
  - Recitations will be spent completing graded worksheets in class.
  - Recitation worksheets must be handed in by the end of class.
  - You may work in groups of up to three people, you may also work by yourself if you prefer.
  - The first recitation is practice, it is **not** graded.
  - I will **drop** your worst two worksheet grades. Because of this rule, there are **no makeups** for worksheets. If you miss a worksheet session, then that counts as one of your drops.
- Midterm exams
  - The second midterm exam only covers material following the first midterm exam.
  - Exams will consist of problems for you to solve that are similar to or extensions of problems assigned during homework or recitation.
  - Exams are closed-book and closed notes. You are allowed to bring in a 3" × 5" index card with notes on the front and back. These index cards will be collected along with your exam.
- Final exam
  - The final exam is mandatory for all students.
  - The final exam is comprehensive, it will cover the entire course, but with an emphasis on the material since the second midterm exam.
  - I **strongly** prefer not to reschedule final exams. If you have a compelling case you should give me as much notice as possible. Rescheduling requests will be reviewed on a case by case basis.
  - Exams are closed-book and closed notes. You are allowed to bring in a 3" × 5" index card with notes on the front and back. These index cards will be collected along with your exam.
- Office hours
  - Office hours are available to you each week on Mondays 9-10am.
  - Please come to office hours. Office hours are often a very under-utilized resource.

**Grading**

Homework	20%
Recitation worksheets	20%
Midterm Exam1	15%
Midterm Exam2	15%
Final Exam	30%

Your course letter grade will be assigned as follows:

95	100	A
90	94	A-
87	89	B+
83	86	B
80	82	B-
77	79	C+
73	76	C
70	72	C-
65	69	D+
60	64	D
0	59	F

**Academic Dishonesty**

The Drexel University policy on academic dishonesty will be strictly enforced. Plagiarism, fabrication, and cheating will, at the discretion of the instructor, constitute grounds for failure of the course.

**Course calendar**

<b>Date</b>	<b>Notes</b>
M 1/4	Lecture1M, HW1 assigned (practice)
W 1/6	Lecture1W
F 1/8	Worksheet1 (practice)
M 1/11	Lecture2M, HW2 assigned
W 1/13	Lecture2W
F 1/15	Worksheet2
M 1/18	<b>Martin Luther King, Jr. Day, lecture cancelled</b> , HW3 assigned
W 1/20	Lecture3W, HW2 due
F 1/22	Worksheet3
M 1/25	Lecture4M, HW3 due
W 1/27	Lecture4W
F 1/29	Worksheet4
M 2/1	<b>Exam1</b> , HW5 assigned
W 2/3	Lecture5W
F 2/5	Worksheet5
M 2/8	Lecture6M, HW5 due, HW6 assigned
W 2/10	Lecture6W
F 2/12	Worksheet6
M 2/15	Lecture7M, HW6 due
W 2/17	Lecture7W
F 2/19	Worksheet7
M 2/22	<b>Exam2</b> , HW8 assigned
W 2/24	Lecture8W
F 2/26	Worksheet8
M 3/1	Lecture9M, HW8 due, HW9 assigned
W 3/3	Lecture9W
F 3/5	Worksheet9
M 3/8	Lecture10M, HW9 due
W 3/10	Lecture10W
F 3/12	Worksheet10