

UCLA Department of Statistics
Statistics 10: Fall 2011 Syllabus

Course: Stats 10: Introduction to Statistical Reasoning
Dates: September 22 - December 8
Lecture Meeting: MWF 11:00AM - 11:50AM
Final Exam: Thursday 12/8/2011 8:00AM - 11:00AM
Instructor: Kekona Sorenson
Email: [REDACTED]
Office: Math Sciences [REDACTED]
Office Hours: MW 12:00PM - 1:00PM
TA's: Neil Fultz and Gary Evans
Textbook: Stats: Data and Models by DeVeaux, Velleman and Bock (3rd edition, paperback)
Clicker: Required! Turning point: ResponseCard XR. Note, other clickers (not from TurningPoint) WILL NOT work. Please bring clicker to class everyday
Calculator: Any scientific calculator will do. Please bring it to class every day. If you forget your calculator for the exams, you may NOT use your cell phone as a calculator.
Course Website: <https://www.ccle.ucla.edu>. All official class business will be conducted through this website. Quizzes, HWs, labs and other class related items will be posted here. You can login by clicking on "My Sites" then using your UCLA login. You should see a link for this class if you registered.

Week	Lecture Topic	Chapters	Section/Lab	What is due
0 F	Syllabus/Intro to Data	1,2	Section: None Lab: Survey, intro	
1 M W F	Categorical data Quantitative data Std.dev/z/normal model	3 4 5-6	Section: Activity 1 Lab 1: Baby Boom	HW 1 - Fri
2 M W F	Empirical Rule Scatterplot/association Association/correlation	5-6 7-9 7-9	Section: Activity 2 Lab 2: Batter up	Quiz 1 - Mon Lab 1 - Th HW 2 - Fri
3 M W F	Linear regression/resid Review Midterm 1	9 1-9	Section: Review Lab: Lab exam 1	Quiz 2 - Mon Lab 2 - Th HW 3 - Fri
4 M W F	Randomness/surveys Experiments/obs. Study Randomness -> prob.	11,12 13 14-15	Section: midterm Lab 3: TB or not TB	HW 4 - Fri
5 M W F	Probability Rules Probability Rules Random variables	15 15 16	Section: review Lab 3: TB or not TB	Quiz 3 - Mon HW 5 - Fri
6 M W F	Probability Models Revisit Normal Sampling distribution	16-17 18	Section: review Lab 4: Hot hands	Quiz 4 - Mon Lab 3 - Th HW 6 - Fri
7 M W F	Review for MD 2 Midterm 2 Holiday	11-18	Section: Review Lab: Lab exam 2	Quiz 5 - Mon Lab 4 - Th
8 M W F	Confidence Intervals-p Confidence Intervals-p Hypothesis Tests-p	19 19 20-21	Section: Review Lab 5: Compared to what?	HW 7 - Fri
9 M W F	Hypothesis Tests-p Hypothesis Tests-p Holiday	20-21 20-21	Section: Review Lab: Holiday	Quiz 6 - Mon
10 M W F	2 Proportion CI 2 Proportion HT Final Review	22 22	Section: Activity 3 Lab: Review	Lab 5 - Th HW 8 - Fri
Final	Thursday 12/8/11 8AM			

GRADED MATERIALS:**Breakdown:**

- **Homework:** 10%
- **Quizzes:** 10%
- **Labs:** 10%
- **Midterm 1:** 20% (Lab exam = 2%)
- **Midterm 2:** 20% (Lab exam = 2%)
- **Final:** 30% (Course participation/attendance = 2%)

Homework (8 Total)

- HW assignments are listed below.
- You can expect to spend between 2 and 3 hours on a given assignment.
- No late homework will be accepted. HW is due at the beginning of lecture or before lecture if you will be absent.
- **Homework cannot be emailed.**
- Lowest HW score will be dropped

Homework Assignments for this quarter:

Assignment	Required Problems	Due date
1	Ch 2: 21,22,23 Ch 3: 11,29,31,32 Ch 4: 7,9,30,47,48	Friday 9/30
2	Ch 5: 15, 17,21,29 Ch 6: 5,13,28,39,41 Ch 7: 11,32,37	Friday 10/7
3	Ch 8: 39,40,41,42 Ch 9: 11, 13, 25	Friday 10/14
4	Ch 11: 5,7,8,11 Ch 12: 7, 10, 21 Ch 13: 7, 9, 18	Friday 10/21
5	Ch 14: 19,21,25,31,32,37 Ch 15: 7,9,15,33,35	Friday 10/28
6	Ch 16: 1,5,6,7 Ch 17: 20	Friday 11/4
7	Ch 18: 5,7,9,10,13 Ch 19: 3,8,17,22,35,41	Friday 11/18
8	Ch 20: 15,29,30,33 Ch 21: 1, 9, 18 Ch 22: 7, 25, 32	Friday 12/2

Quizzes (6 Total):

- Quizzes will open on the CCLE website on Thursday morning and close at 9:00 on Monday.
- These are short (10 questions), online multiple-choice quizzes and are intended to get a more real-time gauge of how well you are grasping the concepts. These are not intended to be comprehensive, nor should they be considered as a reasonable indicator of how the midterm/final will be. Many concepts that will be tested on the midterm/final will not be on the quizzes.
- **There will be no make up quizzes allowed.**
- Lowest quiz score will be dropped.

Labs (5 Total):

- Labs will be assigned on Thursday and due the following Thursday
- Labs are intended to let you "play" with and analyze real data. The goal is to help you make the connection between the concepts covered in class and how statistics is done in the real world.
- You will be using Fathom to analyze the data for the labs.
- **There will be 2 lab exams to be done in lab section during the weeks of the midterm. They will contribute 2% to each midterm.**
- Labs are due in lab section.
- Lowest lab score will be dropped

Exams (3 Total):

- There will be 2 midterms, and 1 final
- The exams will be comprised of multiple-choice and free response questions and will last the entire lecture (or finals period)
- No make up exams will be allowed. Please check your calendar now to make sure you will be available.
- You will be allowed to use any scientific calculator, but no cell phones. If you forget your calculator you may NOT use your cell phone!
- You will be allowed one side of one 8.5" by 11" sheet of paper for notes per exam. These will be checked when the exam is graded. Please only use ONE side.
- The final exam will be cumulative, but the midterms will not.

Grade scale:

A+	>100%	A	93% - 100%	A-	90% - 92.99%
B+	87% - 89.99%	B	83% - 86.99%	B-	80% - 82.99%
C+	77% - 79.99%	C	73% - 76.99%	C-	70% - 72.99%
D+	67% - 69.99%	D	63% - 66.99%	D-	60% - 62.99%
F	59.99% or lower				
Pass	C or higher				
Inc	You need to complete at least 75% of the work with least a C				

OTHER POINTS OF INTEREST:

For all graded materials please do the following before coming to class:

1. Put your FULL name, date, section (a,b,c or d), assignment name and number (i.e. lab 1, hw 3, etc...) in the upper right hand corner of the page.
2. Staple your assignment when necessary. We will not provide staplers.

POINTS WILL BE DEDUCTED IF YOU DO NOT FOLLOW THESE RULES

Email etiquette:

- This is kind of silly, but will help you later on in your college and professional careers:
- Always include a relevant subject in the header (i.e. Stats 10 - HW question).
- Always include a header (i.e. Dear Kekona or Kekona,)
- Do not use "text type" (i.e. brb, lol, thx...)
- Sign your email appropriately (i.e. Sincerely, Thanks, etc...) and DON'T FORGET TO SIGN YOUR FULL NAME!
- **Although I am usually pretty quick with emails, do not expect immediate responses. A response 48 hours later is not uncommon.**

How to succeed in this course:

Statistics is hard for some people, but this class is entirely doable. In order to succeed, you will need to:

- Read the book before and after class
- Ask questions. In class, out of class, with your TA, with me, with your friends...ask questions. This is true of any class you take. Talk to the person sitting next to you in class and discuss statistics with them. You will be surprised how much you will learn simply by talking about it with your peers. Don't limit yourself to the course materials about things to ask questions about. If you read an interesting article, or see something on the news that sounds "statistical" come talk about it!
- Come to every lecture with a positive attitude and participate.
- Do not get behind.
- This course uses previous topics to build onto new topics so do not procrastinate. If you are confused in week 1, week 2 will be even harder...
- Bottom line: YOU CAN DO THIS! Put in the work, ask questions, and remain positive and you will be surprised how much you can learn here!