

AMS 7 - First Lecture 4/3/18

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▷ Final SMT Exams are take home

▷ Official Note-taker

↳ how you did in classes previously (math classes)

* email Professor

* Will receive bonus!

TAs

Head TA * Raquel Barata (rbarata@ucsc.edu)

Bohan Liu (bliu47@ucsc.edu)

Xingchen Yu (xyu26@ucsc.edu)

↳ refer to worksheet for more info

▷ Webcasting: recorded lectures

Under David Draper - AMS 7 (ucsc course webcast)

▷ OFFICE HOURS: TBA

no office hours this week → starting next week

* there will be extra office hours on weekends

▷ Attendance is not mandatory, but beneficial for asking questions

▷ Permission codes will be given

* email Professor & explain why you would like to be or need to be added.

▷ Section/Discussion

* quizzes will be 20% of your grade

so DO NOT miss them (attend each week)

▷ AMS 7L

* not connected to this class, contact instructors separately

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▷ one holiday May 28th

↳ Discussions will not be cancelled that week!
make sure to attend another section that is not on Monday

▷ Stay on track! Don't fall behind

↳ If you fall behind, seek help

* MEP

* MSI

* LSS

▷ Reading (Mandatory)

↳ "Statistical Methods for the Biological, Environmental, & Health Sciences" by Draper D (2018)

* will be available later this week / next week

▷ Permission codes & Pre-regs

↳ Permission codes will be given out after reviewing emails. Send an email explaining why you need to be in this class

↳ Pre-regs. online (my UCSC)

▷ Course req. & Grades

* Complete assignments & do all quizzes (material is cumulative)

• HW (25%) 4-5 assignments

↳ late HW will rarely be accepted (excused)

↳ worst HW grade will be dropped

↳ For HW solutions, ask Professor & TAs

• Midterm (25%)

↳ take home, open book & open note

• Quizzes (20%)

- Final (30%)

- * if the class does not cheat on MT, this will be taken home as well

- Homework & Midterm / Final submission

- ↳ Download PDF converters on smartphone & turn in on Canvas (canvas.uvsc.edu)

- ▷ Collaboration, Plagiarism, & cheating

- ↳ you can discuss problems, but need to write your own answers

- ▷ Calculators

- ↳ scientific is not required (can use your phone) but recommended

- ↳ graphing calc. not required

- * always have an idea of what answer should be because calculators are not always right!

- ▷ Bring Lecture notes & reader in a binder in every meeting

- ▷ Preparing written work for submission

- * name, legible/coherent writing, & Preview PDF file before submission

- ↳ write in pen & adjust contrast

- * write on scratch paper first before final submission

- * always try the problems

- ↳ don't leave anything blank

4.3.18

4

General
Content :

Statistics is the study of uncertainty

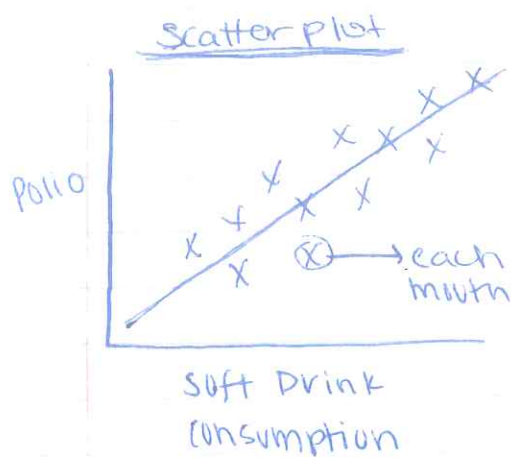
THIS TIME → Intro. ; samples & populations

Next Time → descriptive methods

Seasons	H = high # of polio causes	M = medium amount of soft drink consumption	L = low
Spring	M	M	
Summer	H	H	
Fall	M	M	
Winter	L	L	

* there is a positive association between soft drinks & polio

Season	# of	Polio cases	amount of soft+ Drinks
Spring		Medium	Medium
Summer		High	High
Fall		Medium	Medium
Winter		Low	Low



Positive slope

→ Positive association between the two

1 "x" for each month

* Positive association does not mean that it is causal. many positive associations are not causal

↳ Glass bottles were re used by company. ∴ could be insufficiently sterilized

* turned out not to be due to soft drink consumption

↳ swimming pools was not chlorinated & they were causing polio spread

▷ How to determine if a relationship is causal

↳ will be discussed in a week