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SYLLABUS

title	Introduction to Statistics
course	Math 2510
section	001
term	Fall 2019
campus	CU Boulder
credits	3 units
link	https://math2510.coltongrainger.com

tl;dr

schedule	https://trello.com/b/es4osv4Z/math2510
free textbook	https://openintro.org/os (pdf)
license	https://creativecommons.org/licenses/by-sa/3.0
more books	https://math2510.coltongrainger.com/books
more lectures	https://www.openintro.org/stat/videos.php
prerequisites	https://math2510.coltongrainger.com/guide

instructor

name	Colton Grainger
www	https://coltongrainger.com
email	colton.grainger@colorado.edu
office	Math Dept 201
office hours	https://go.oncehub.com/coltongrainger
policy	30 minutes ahead to schedule, 15 to cancel

lectures

meeting room	Muenzinger E064
meeting time	8:00am – 8:50am Mon/Wed/Fri
first day	Aug 26, 2019
last day	Dec 12, 2019

overview

1. data wrangling (late August)
2. elementary probability and measure (late September)
3. statistical distributions (October)
4. inference and hypothesis testing (November)
5. model selection (December)

important dates

midterm A	Wed Oct 16	in class
project A	Fri Oct 18	due by 11:59pm
project B	Mon Dec 9	due by 11:59pm
midterm B	Wed Nov 20	in class
cumulative final	Wed Dec 18	7:30am–10:00am (room TBD)

exam policy

No make-up exams; please plan ahead.

letter grades

Each of i, r, s, p, q, a, b, c will be a real number scored from 0 (empty) to 1 (excellent), based on the assessment groups listed:

in-class participation	i
reading	r
problem sets	s
project A	p_A
project B	p_B
quizzes	q
midterm A	m_A
midterm B	m_B
cumulative final	c

Say that γ is your uniform grade in the interval $[0, 1]$. Then γ has linear dependence on 8 other random variables,

$$\gamma = \frac{i}{10} + \frac{r}{10} + \frac{s}{10} + \frac{p_A}{20} + \frac{p_B}{20} + \frac{q}{10} + \frac{3m_A}{20} + \frac{3m_B}{20} + \frac{c}{5}.$$

If γ is "close" to (within 0.03 lengths of) one of the real numbers 0.95, 0.85 or 0.75, your letter grade will be A, B, or C. Else your letter grade will be marked with an appropriate $+$ or $-$ (if γ is closer than 0.02 lengths from 1, 0.9, or 0.8, respectively).

grading policy

TBD. (We ought to have written an honor code by Aug 30, 2019. Assessments should be fair, predictable, and thought-provoking.)

epigram

The pursuit of knowledge, friend, is the askin' of many questions.