

# Stat 315, Fall 2025

## Statistics I

Luc Rey-Bellet

### Instructor

Luc Rey-Bellet  
LGRT 1423K  
[luc@cns.umass.edu](mailto:luc@cns.umass.edu)

### Class Meeting

- Section 2: LGRC A203, MWF 12:20 PM – 1:10 PM
- Section 4: LGRC A201, MWF 1:25 PM – 2:15 PM

### Office hours

- W 3:00-4:00 PM in LGRT 1423 K or on [ZOOM](#)
- Th 11:00 AM-12:00PM in LGRT 1423 K or on [ZOOM](#)
- By appointment is always possible, and welcome, and/or ask your questions by email.

### Syllabus

Detailed class information are in the [Class Syllabus](#)

## Basic Course information

- There is a single [canvas page](#) common for all sections where you will submit your **hand-written** weekly homework and do your 5 quizzes.
- Homework is due on Thursdays at 11:59 PM except on the dates of the two midterms, Th October 9 and Th November 13.
- We use [Piazza](#) as a class forum and Gradescope for the exam.
- Grade: 25% homework, 25% quiz, 25% midterm, 25% final

A	A−	B+	B	B−	C+	C	C−	D +	D	F
93	89	85	80	75	70	65	60	55	50	<50

## Online Ressources

### [Online Lectures by John Tsitsiklis](#)

The lectures are conveniently split into short videos treating one single topic and are good for review.

## Class slides

The slides are continuously updated and you should use these links for the latest version.

- [Slides00-Syllabus](#)
- [Slides01-Probability Basics](#)
- [Slides02-Counting](#)
- [Slides03-Conditional Probability](#)
- [Slides04-Conditioning and Bayes rule](#)
- [Slides05-Random variables and expected value](#)
- [Slides06-Functions of random variables and variance](#)
- [Slides07-Binomial random variables](#)
- [Slides08-Geometric and negative binomial random variables](#)
- [Slides09-Hypergeometric random variables](#)
- [Slides10-Poisson random variables](#)

- Slides11-Continuous random variables
- Slides12-Uniform random variables
- Slides13-Normal random variables
- Slides14-Exponential and gamma random variables
- Slides15-Beta random variables

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- OLD Slides -

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- Slides11-Joint discrete random variables: pdf and independence
- Slides12-Joint discrete random variables: covariance
- Slides17-Joint continuous random variables
- Slides18-Conditional expectation
- Slides19-Moment generating functions
- Slides20-Chebyshev inequality
- Slides21-Function of RV: CDF method
- Slides22-Function of RV: MGF method
- Slides23-Law of Large Numbers
- Slides24-Central Limit Theorem