Probability, Math 3160 Sec. *007*[1], Fall 2018

Lecturer. Dr. iddo.ben-ari@uconn.edu, 431 Monteith.
Office hours. Tu 2:00PM, Piazza, and by appointment.

Class. TuTh 12:30-1:45PM, MONT110.

Homepage. https://piazza.com/class/jl6x8v4u1u5571

Resources. No required textbook.
Main resource: Introduction to Probability, Iddo Ben-Ari.
This includes text, exercises, and videos, and will be **constantly updated** during the semester.
Other:

- Lectures Notes in Probability, Richard Bass.
- Introduction to Probability by J. Laurie Snell and Charles M Grinstead.
- A Natural Introduction to Probability Theory by Ronald Meester.

Links to all three: https://goo.gl/CJBR43

Schedule (tentative).
The list follows our main resource.

Week #	Topic	Chapter	Comments
1	Combinatorics	1	
2	Probability Spaces	2	
3	Conditional Probability	3	
4	Independence	4	
5	Random Variables	5.2 - 5.3	Exam I, Thu 09/27
6	Some probability distributions	5.4	
7	Expectation Transformations & Variance	5.5-5.7	
8	Random Vectors, discrete vectors	6.2-6.4	
9	Random Vectors with densities	6.5-6.6	
10	Weak law of large numbers	7.4	Exam II, Thu 11/01
11	Moment generating functions	7.5	
12	Convergence in distribution	7.6	
13	Normal Distribution	7.7	
14	Central Limit Theorem	7.8	
15	-		Exam III, due Friday, 12/14

[1] Sec. 001 for honors enrollment

Grade.

- 10% Weekly 5-10 minute quizzes, lowest two dropped.
- 10%, participation in Piazza, office hours, class.
- 15% Weekly assignments on Thursdays, starting Week 2, lowest two dropped.
- 20% Exam I, Thu, 09/27.
- 25% Exam II, Thu 11/01.
- 25% Exam III, due Fri 12/14.

Grade-related course policies.

- Electronic devices and notes of any kind are not allowed in quizzes and exams.
- Letter conversion: ≥93% A;≥90% A–;≥87% B+;≥83% B;≥80% B–;...;<60% F

Academic integrity. I'm quite sure we won't have to deal with it, but just in case:

- UCONN policy.
- Please contact me if you have any questions or problems to report.

General.

- Other relevant UCONN policies
- Not sure about anything? Contact me.