6.041 Probabilistic Systems Analysis 6.431 Applied Probability

- Staff:
- Lecturer: John Tsitsikliß
- Pick up and read course information handout
- Turn in recitation and tutorial scheduling form (last sheet of course information handout)
- Pick up copy of slides

Coursework

 Quiz 1 (October 12, 12:05-12:55pm) 	17%
 Quiz 2 (November 2, 7:30-9:30pm) 	30%
 Final exam (scheduled by registrar) 	40%
 Weekly homework (best 9 of 10) 	10%
 Attendance/participation/enthusiasm in recitations/tutorials 	3%
Collaboration policy described in course info handout	
 Text: Introduction to Probability, 2nd Edition, D. P. Bertsekas and J. N. Tsitsiklis, Athena Scientific, 2008 Read the text! 	

LECTURE 1

• Readings: Sections 1.1, 1.2

Lecture outline

- Probability as a mathematical framework for reasoning about uncertainty
- Probabilistic models
- sample space
- probability law
- Axioms of probability
- Simple examples

Sample space Ω

- "List" (set) of possible outcomes
- List must be:
- Mutually exclusive
- Collectively exhaustive
- Art: to be at the "right" granularity





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