CORE-UA 107: Probability, Statistics and Decision-Making
Fall 2018

• Lecturer: Dr. Charmaine Sia
  – e-mail: sia@cims.nyu.edu. Please include “PSDM” in the subject line.
  – Office: Warren Weaver Hall 706
  – Office hours: Tuesdays 1:30–2:30 pm and Wednesdays 10:30–11:30 am or by appointment

• Course information
  – Lecture time and location: Mondays & Wednesdays 8:00–9:15 am in 19 University Place 102
  – Recitation time and location: You must register for one of the following recitation sections.
    * Tuesdays 11 am–12.15 pm in 60 Fifth Avenue C04 with Rui Jiang, rj1294@nyu.edu
    * Tuesdays 12:30–1:45 pm in 60 Fifth Avenue C04 with Rui Jiang, rj1294@nyu.edu
    * Tuesdays 2:00-3:15 pm in 60 Fifth Avenue C04 with Yuyang Lai, yl5030@nyu.edu
    * Tuesdays 3:30–4:45 pm in 25 West 4th St C-8 with Yuyang Lai, yl5030@nyu.edu
  – Course website: https://newclasses.nyu.edu/portal/site/62939aa6-3c36-45de-a1db-f628dbbdfad6
  – Textbook: Solomon Garfunkel et al., For All Practical Purposes: Mathematical Literacy in

• Course description
  – This course examines the role in mathematics in making “correct” decisions. Special atten-
    tion is devoted to quantifying the notions of “correct,” “fair,” and “best” and using these ideas
    to establish optimal decisions and algorithms to problems of incomplete information and un-
    certain outcomes. The mathematical tools used include a selection of topics in probability,
    statistics, graph theory, optimization and game theory.

• Grade breakdown and dates
  – Written homework to be scanned and submitted as a PDF file online: 15%, posted on the
    course website and usually due weekly on Wednesdays
  – Quizzes: 15%, usually weekly in recitation
  – Midterm examination 1: 20%, in class on Wednesday, October 10, 2018
  – Midterm examination 2: 20%, in class on Wednesday, November 14, 2018
  – Final examination: 30%, at 8:00–9:50 am on Wednesday, December 19, 2018
  – No extra credit projects will be offered

• Homework, quiz and examination policy
  – Late homework will not be accepted.
  – You are permitted to discuss homework with fellow students, but homework must be written
    in your own words.
  – The lowest homework score and two lowest quiz scores will be dropped.
– Questions regarding quiz grading should be directed to your recitation instructor first.
– Missed quizzes cannot be made up unless you miss more than two quizzes due to illness, emergency, religious holidays or university-sanctioned events.
– Only a limited number of out-of-sequence tests can be accommodated due to limited availability of rooms and proctors. Out-of-sequence tests may be approved in the following cases:
  * Documented medical excuse
  * University-sanctioned event such as an athletic tournament or a performance. Athletic practices and rehearsals do not qualify. Please request a supervisor or faculty advisor to contact the lecturer.
  * Religious holiday
  * Extreme hardship such as a family emergency

Out-of-sequence tests will not be accommodated for purposes of more convenient travel, including already purchased tickets. Scheduled out-of-sequence tests (those not arising from emergencies) must be taken before the actual test. Please contact the lecturer at least two weeks in advance to schedule them.
– If you miss a test due to an emergency, you must e-mail the lecturer written documentation within 2 days of the missed test or immediately after you return to school.

• Academic integrity
– You are expected to follow codes of academic integrity as specified by the university and the College of Arts and Sciences:
  * https://www.nyu.edu/about/policies-guidelines-compliance/policies-and-guidelines/academic-integrity-for-students-at-nyu.html
  * https://cas.nyu.edu/content/nyu-as/cas/academic-integrity.html
  * http://cas.nyu.edu/content/nyu-as/cas/academic-integrity/honor-code.html