

Instructor: Dr. Cen-Tsong Lin

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Office Hours: 1:00 – 2:00 PM, Monday – Thursday or by appointment

Course goals: This course is designed to help students become capable of critical thinking, master the counting procedures, probability, random variables and their probability distributions. After finishing this course, students are expected to be able to apply those skills in quantitative decision makings and lay a solid background for statistics courses.

Course description: This course meets General Education "Basic Requirements (D)" and prepares student for introductory statistics courses in various departments. It covers the language of sets, counting procedures, introductory probability, decision-making, and introductory statistics.

Required Text: Bill Owen and Fred Cutlip, Finite Mathematics: Introductory Probability and Statistics, Hayden-McNeil

Calculator: A TI-83/84 Plus graphing calculator (or equivalent) is **required**

Course outlines:

- Introductory counting and probability
- More on counting and probability (including conditional probability, independence, Bayes' theorem)
- Random variables and their probability distributions (including binomial and normal distributions, normal approximation to binomial distribution)
- Introductory statistics

Course Policies:

Attendance: Daily attendance is expected and considered necessary for success. Bring the textbook and your graphing calculator to each class meeting.

Homework (25%): Daily homework will be assigned and posted on Canvas with specific due date. Your homework should be neat, including work for your answers. You need to turn in your homework on the due date. No late homework will be accepted.

Three midterm exams (50%): Tentative testing dates are: 1/22, 2/12 and 3/4.

Make-up tests will be given only when you can document a circumstance that is beyond your control that prevents you from taking the test.

Final Exam (25%) is comprehensive, 8 – 10 AM, Monday, 3/14/2016

Course grade will be assigned based on the following scale:

	93% → A	90% → A-
87% → B+	83% → B	80% → B-
77% → C+	73% → C	70% → C-
67% → D+	63% → D	60% → D-

I reserve the right to adjust the above scale (in student's favor) if deemed appropriate.