George Washington University
Department of Statistics
STAT 6201.12: Mathematical Statistics I
Fall 2016 CRN 13974

Lectures: Monday 6:10–8:40 p.m. GELM Room 608

Instructor: Dr. Yeh-Fong Chen, yehfong1@gwu.edu (or yehfong1@gmail.com)
Office Hours: Monday 8:40–9:40 p.m. or by appointment

Teaching Assistant: Di Xiao, xiaodi@gwmail.gwu.edu
TA will grade homework assignments.
TA Office hours: Tuesday 8:40–9:40 p.m. GELM 306

Course Structure: One three-hour lecture per week.
Grade will be based on homework, quizzes, one midterm and one final exam.


Course Content: This is the first part of a two-semester course in Mathematical Statistics. I will cover most of the sections in the first five chapters of the textbook, including probability theory, transformation and expectations of random variables, common families of distributions, multiple random variables, and properties of a random sample. The aim of this course is to build students’ knowledge in theoretical probability and statistics, as well as to enhance their logical reasoning and analytical skills for problems solving and mathematical proofs.

Upon completion of the course, students should demonstrate the overall understanding of the principles of probability and fundamental statistics. They will be ready to continue to learn more advanced statistical knowledge offered from the second part of the course.

Code of Academic Integrity: All examinations, papers, other graded work products and assignments are to be completed in conformance with The George Washington University Code of Academic Integrity. It states: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one’s own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see http://studentconduct.gwu.edu/code-academic-integrity.

Homework and Quizzes: Homework will be assigned in the class every week and collected one week after. As a student, you must work independently. Quizzes (possibly unannounced) will be given periodically.

Midterm: One closed-book midterm examination will be given around mid-October. If the midterm is missed, you receive zero credit for that part of the grade. No make-up
midterm will be given. In exceptional circumstances (e.g., well-documented medical problems), a missed midterm will not be counted towards your course grade.

**Final Exam:** The final examination (Time and Date to be announced) is cumulative. In the event that you are going to miss an examination, you must notify me prior to the examination. There will be no make-up final exam.

**Course Grading:** Your final letter grade will be determined by a total score as follows: Homework and Quizzes: 30%, Midterm: 30%, Final: 40%.

Note: the final letter grade will be assigned based on grading on a curve. A grade of INCOMPLETE will ONLY be given to a student who attended all classes except the completion of the final examination due to illness or (documented) extenuating circumstances beyond his or her control.

**Class Policy:** Late work will not be accepted. Except for medical cases (with proper documentation), there will be no make-ups. If you miss an exam or miss a deadline, you receive zero credit for that part. For university policies on teaching, please see [http://www.gwu.edu/academic/Teaching/main.htm](http://www.gwu.edu/academic/Teaching/main.htm).

**Student Services:** If you experience difficulty in this course for any reason, please consult with me. If you have a disability and require accommodations, please notify me with a letter from DSS, so that we can make arrangements.

**Disability Support Services (DSS):** Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services at (202) 994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information, please refer to: [http://gwired.gwu.edu/dss](http://gwired.gwu.edu/dss).

**University Counseling Center (UCC):** The UCC (202) 994-5300, [http://counselingcenter.gwu.edu/clinical-services](http://counselingcenter.gwu.edu/clinical-services) offers 24/7 assistance and referral to address students’ personal, social, career, and study skills problems. Services for students include: (1) crisis and emergency mental health consultations, (2) confidential assessment, counseling services (individual and small group), and referrals.

**Security:** In the case of an emergency, if at all possible, the class should shelter in place. If the Building that the class is in is affected, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location. See Blackboard page for more information.

**Misc:** Please turn your cell phones and laptops off during the class!