The George Washington University
Department of Statistics

STAT 6201 - Section G3
Fall 2012

Days: Thursday
Meeting Time: 2:30-5:00pm
Classroom: ARLGTN 602 (950 N Glebe Road, Arlington, VA 22203)

Instructor: Winfried Barta
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Office hours: Thursday 5-6pm, in ARLGTN 605

Teaching Assistant: Xianyi Chen
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Office hours: Monday 4-5pm, at 2140 Pennsylvania Avenue, Room B01

Main Textbook:
 Statistical Inference
By George Casella and Roger Berger, 2nd edition.

Supplementary Textbook:
 Introduction to Mathematical Statistics
By Hogg, McKean and Craig, 6th or 7th edition.

Course Description:
This is the first part of a two-semester course in Mathematical Statistics. We introduce probability theory as a mathematical foundation for statistical inference. Some topics: The axioms of probability, conditional probability and independence, random variables, density and mass function, moments, some standard discrete and continuous distributions, joint distributions, transformations. We will cover (roughly) chapters one to five from the main textbook.
Prerequisites:

An introductory course in statistics and/or probability can be helpful, but is not required. Familiarity with (multivariable) integral and differential calculus is assumed. Competence in basic algebra is expected, for example extraction of roots of equations of the second degree and accurate manipulation of algebraic expressions are required.

Learning outcomes

As a result of completing this course, students will be able to:

1. Make probabilistic arguments and derive fundamental results in probability.
2. Formulate probabilistic models for science, engineering, economics, public policy and many other areas of application.
3. Have a global overview of the interplay between probability and statistics.

Grading Policy

1 Midterm (30%) Oct/04 in class, closed book
1 Final (35%) Dec/13 in class (tentatively), closed book
Homework (35%)
Class participation (0-5%)

Note that these add up to 100-105%.

Class Policies

Late work: Will not be accepted.

Make-up exams: Except for emergencies with proper documentation, there will be absolutely no make-ups; you missed an exam, you failed it.

Blackboard

Please check Blackboard frequently, as there may be assignments, announcements, and material passed to the class via this electronic medium during the week. You can find it at

http://blackboard.gwu.edu/

You need to login, using your NetID and password. You should also check your Email regularly, as some announcements regarding the class might be sent via Email.
University Policy on Religious Holidays:
1. Students should notify faculty during the first week of the semester of their intention to be absent from class on their day(s) of religious observance;
2. Faculty should extend to these students the courtesy of absence without penalty on such occasions, including permission to make up examinations;
3. Faculty who intend to observe a religious holiday should arrange at the beginning of the semester to reschedule missed classes or to make other provisions for their course-related activities.

ACADEMIC INTEGRITY
I personally support the GW 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://www.gwu.edu/~ntegrity/code.html

SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM
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 office 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/

UNIVERSITY COUNSELING CENTER (UCC)  202-994-5300
The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include:
- crisis and emergency mental health consultations
- confidential assessment, counseling services (individual and small group), and referrals
http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices

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.