COURSE DESCRIPTION
This is a course in mathematical statistics that follows Stat 6201. We review some material on probability and random variables and proceed to statistical inference. Concepts such as sufficiency and ancillarity are covered, methods and criteria of point estimation, hypothesis testing, and interval estimation.

TEXT
“Statistical Inference”, 2nd Ed., Casella and Berger

LEARNING OUTCOMES:
You will learn to:
Compare and contrast modes of convergence.
Reduce data through sufficient statistics
Determine good and optimal estimators according to statistical criteria.
Find MP tests and other tests of hypotheses.
Construct confidence regions from tests, and by using pivotal quantities.

Grading: The final grade will be based on:
Homework & quizzes - 40%
Midterm - 30%
Final - 30%

HW will be assigned almost every week. Check Blackboard frequently for announcements.
There will be quizzes, some of which may be unannounced.
The Midterm will be around March 21.

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 on the main floor of 2140 Pennsylvania Ave.