Course and Contact Information

- Time: Mondays and Wednesdays 12:45 - 2:00 PM
- Location: 2020 K St, Room 24

Instructor

- Name: Emre Barut
- Campus Address: Old Main (1922 F St. NW), Room 301C
- Phone: (202) 994-9025
- Email: barut@gwu.edu
- Office Hours: Monday 2-4 PM, or by appointment

Textbooks

- **Required**: Statistical Inference (by George Casella and Roger Berger)
- **Recommended**: Introduction to Mathematical Statistics (by Robert V. Hogg, Joseph McKean and Allen T Craig)

Prerequisites:

- Familiarity with integral and differential calculus. You should be comfortable with integrals like $\int x \log(x) dx$. Competence in basic algebra is also assumed.
- You don’t need to have any previous background in statistics or probability, but it could be useful.

Topics

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<td>Introduction to probability, axioms, set operations</td>
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<td>Conditional probability, Bayes’ rule, Independence</td>
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<td>Random Variables, <strong>QUIZ 1</strong></td>
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<td>Functions of Random Variables, Expected Values</td>
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<td>MIDTERM</td>
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<td>Some Discrete and Continuous distributions</td>
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<td><strong>EXAM</strong></td>
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Learning Outcomes
As a result of completing this course, students will be able to:

1. Make probabilistic arguments
2. Have an overview of the interplay between probability and statistics

Grading
- Homeworks (30%) (there will be 6-7 assignments)
- In class exams: 2 Quizzes (10%), 1 Midterm (25%), 1 Final Exam (35%)

Class Policy
- Late work will not be accepted.
- Except for medical cases (assuming you have the proper documentation), there will be no make-ups. If you miss an exam, you will receive 0 points on that exam.

Blackboard
- Please check Blackboard frequently, as there may be assignments, announcements, and material passed to the class during the week. You can find it at blackboard.gwu.edu. You’ll need to login using your GW user ID and password.

Academic Integrity
- I support the GW Code of Academic Integrity (studentconduct.gwu.edu). 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.”
- Any case of the slightest hint of cheating will be prosecuted to the fullest extent of the university Academic Integrity Policy. You will receive an automatic F, and the case will be taken to the proper administrative channels.

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 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. See counselingcenter.gwu.edu.

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.