GEORGE WASHINGTON UNIVERSITY  
DEPARTMENT OF STATISTICS  

Course Information

STAT 1053-12 -- Introduction to Statistics for Social Science -- Spring 2011

Lectures: Tuesday-Thursday, 3:45–5:00pm, Funger Hall, Room 108

Instructor: Jonathan Stroud  
Email: stroud@gwu.edu  
Office: 2140 Pennsylvania Ave., Room 107  
Phone: (202) 994-6889  
Office Hours: Tuesday 1-2pm and 5-6pm, and by appointment

Lab: The class is divided into five discussion sections, which meet at different times on Wednesdays. You must attend the lab in which you are enrolled. The sessions will be conducted by the respective TAs, who will also administer the quizzes during the lab.

<table>
<thead>
<tr>
<th>Section</th>
<th>Time</th>
<th>Room</th>
<th>TA</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 1053-34</td>
<td>Wed, 12:45-01:35pm</td>
<td>2020 K 11</td>
<td>Wenjing Xu</td>
<td><a href="mailto:jeanzane@gwu.edu">jeanzane@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-35</td>
<td>Wed, 03:55-04:45pm</td>
<td>2020 K 10</td>
<td>Mei Jin</td>
<td><a href="mailto:jinmei@gwu.edu">jinmei@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-36</td>
<td>Wed, 09:35-10:25am</td>
<td>2020 K 24</td>
<td>Wenjing Xu</td>
<td><a href="mailto:jeanzane@gwu.edu">jeanzane@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-37</td>
<td>Wed, 11:10-12:00pm</td>
<td>2020 K 24</td>
<td>Mei Jin</td>
<td><a href="mailto:jinmei@gwu.edu">jinmei@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-38</td>
<td>Wed, 02:20-03:10pm</td>
<td>2020 K 24</td>
<td>Mei Jin</td>
<td><a href="mailto:jinmei@gwu.edu">jinmei@gwu.edu</a></td>
</tr>
</tbody>
</table>

Course Homepage: [http://blackboard.gwu.edu](http://blackboard.gwu.edu). Please check this page frequently. I will post important information (homework, quizzes, projects, lecture notes, etc.).

Course Description:
The course will cover the basics of Statistics and Probability and their applications in Social Science. We will cover Chapters 1-9 and 11 from the textbook. The main topics include: Descriptive statistics for univariate and bivariate data, probability, binomial and normal distributions, confidence intervals, hypothesis testing, correlation and regression.


Software: SPSS Statistics Student Version 18.0 for Windows and Mac OS X. The software may be purchased at the bookstore, and is available in computer labs on campus.
**Homeworks:** Homework problems will be assigned each week and students are expected to complete them. The problems will not be graded but are intended to help reinforce the material from lecture and prepare for quizzes and exams. Problems and solutions will be posted on Blackboard.

**Quizzes:** There will be a 15 to 20 minute quiz during recitations, usually based on material covered in the previous week’s lectures. The quizzes will be graded and will count towards the final grade. **No make-up quizzes are allowed.** However, the two lowest quiz scores will be dropped.

**Projects:** Two mini-projects will be assigned during the course of the semester. The projects will involve analyzing data using the SPSS software and interpreting the results. The projects will be graded. You may work in teams of up to three people.

**Exams:** There will be two exams, a midterm and a final. The final exam is cumulative. Each exam will be closed book; however, you will be allowed a one-page handwritten note sheet for the midterm, and a two-page handwritten note sheet for the final. **No make-up exams are allowed.** The exam dates are listed below:

- **Midterm Date:** Tuesday, March 1 (in class).
- **Final Exam Date:** TBA (May 2--May 10)

**Grading Policy:** The final grade is computed as follows:
- Quizzes: 25%
- Projects: 10%
- Midterm exam: 30%
- Final exam: 35%

**Make-Up Quizzes:** **Absolutely no make-up quizzes are allowed.**

**Make-Up Exams:** **No make-up exams are allowed,** except under extraordinary circumstances such as a death in the immediate family or a true medical emergency. In such cases, I will require written proof (a note from a GW physician) of the cause of the absence. If you will miss a graded assignment due to a religious holiday, you must notify me during the first week of the semester.

**Extra credit:** **No extra-credit assignments will be given.**

**LEARNING OUTCOMES**
As a result of completing this course, students will be able to:
1. Use graphical and numerical methods to summarize data.
2. Calculate the probabilities of events under natural assumptions on the population.
3. Analyze datasets to make inference about characteristics of a population.
4. Apply statistical techniques in problems of interest and obtain useful conclusions.
LEARNING ENVIRONMENT
The class is expected to maintain a respectful learning environment. This includes arriving and leaving on time. If you do arrive late or leave early, please do so quietly and sit in the back row of the room near the exit, as to minimize the disruption to the class and instructor. Violation of this policy will result in a reduction in your final grade.

EMAIL COMMUNICATIONS
Emails with the instructor and the TAs should be conducted in a respectful manner. This includes a proper greeting in the original email and a follow-up thank you email if appropriate.

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.

TUTORING
The Undergraduate Tutoring Lab is available for free walk-in tutoring help. It is located in the Statistics Department conference room on the first floor of 2140 Pennsylvania Ave. The hours are posted at http://www.gwu.edu/~stat/tutoringschedule_fall2010.htm

SUPPORT FOR STUDENTS OUTSIDE THE CLASSROOM
DISABILITY SUPPORT SERVICES (DSS)
Please inform the instructor if you have a documented disability and need special arrangements for tests or quizzes. To establish eligibility and coordinate reasonable accommodations for exams, please contact the Disability Support Services Office (202-994-8250), in the Marvin Center, Suite 242, or at http://gwired.gwu.edu/dss/

UNIVERSITY COUNSELING CENTER (UCC)
The University Counseling Center 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/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.

Note: Stat 1051, 1053, 1091, 1104, 1111, and 1127 are similar in subject matter, and credit for only one of these courses can be given. If you have taken, or plan to take, any other one of these courses, then you should not be enrolled in Stat 53.