Course Information

STAT 1053-10  Introduction to Statistics in Social Science – Spring 2011

Lectures:  Mondays 2:20PM – 3:35 PM at 1957 E Street, Room #213  
           Wednesdays 3:45PM – 5:00 PM at Funger Hall, Room #103

Instructor: Ravi Kalpathy

Office Address: Room #B05  
Department of Statistics  
2140 Pennsylvania Avenue NW  
Phone: 202-994-6625  
Email: kalpathy@gwu.edu  
Web: http://home.gwu.edu/~kalpathy

Office Hours: Mondays 4:00 - 6:00 PM

Lab: The class is divided into four recitation sections with 30 students in each section. Please make sure that you attend the lab for which you are enrolled. The lab sessions will be conducted by the respective TA’s.

<table>
<thead>
<tr>
<th>Section</th>
<th>Time</th>
<th>TA</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 1053-30</td>
<td>Tue, 3:55-4:45 at 2020 K 24</td>
<td>Tong Zhang</td>
<td><a href="mailto:tong_id@gwu.edu">tong_id@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-31</td>
<td>Tue, 5:00-5:50 at 2020 K 24</td>
<td>Tong Zhang</td>
<td><a href="mailto:tong_id@gwu.edu">tong_id@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-32</td>
<td>Tue, 11:10-12:00 at 2020 K 12</td>
<td>Tong Zhang</td>
<td><a href="mailto:tong_id@gwu.edu">tong_id@gwu.edu</a></td>
</tr>
<tr>
<td>Stat 1053-33</td>
<td>Tue, 12:45-1:35 at 2020 K 24</td>
<td>Wenjing Xu</td>
<td><a href="mailto:jeanevange@gwmail.gwu.edu">jeanevange@gwmail.gwu.edu</a></td>
</tr>
</tbody>
</table>

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

Course Description:  
The course will cover the basics of Statistics and Probability and their applications in Social Science. We will cover Chapters 1-8 and a few sections of Chapter 9 from the textbook. The main topics include: Descriptive statistics for univariate and bivariate data, Probability and random variables, Binomial and normal distributions, confidence intervals and hypothesis testing. Most of the optional sections will be skipped.

**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. (We will be using the software for a Project).

**Calculator:** You will need a scientific calculator to do the problems.

**Prerequisites:** The course does not require any background in Calculus. Basic knowledge of Algebra and Arithmetic are sufficient.

**Homeworks:** Homework problems will be assigned and students are expected to work through them. These problems are intended to help reinforce the material from lecture. The homeworks will be graded and will count towards the final grade. The lowest homework score will be dropped.

**Quizzes:** There will be a 20 minute quiz usually based on material covered in the previous week’s lectures. The quizzes will be graded and will count towards the final grade. The lowest quiz score will be dropped.

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

**Exams:** There will be a midterm and a final. The final exam is cumulative. The exams 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 Exam:** Wednesday, March 9, 2011 (tentative)
- **Final Exam:** To be announced and decided by the University. It will roughly be between, May 2 – 10. Check out the following links:
  - GWU Final exam schedule [http://my.gwu.edu/mod/exam_schedules](http://my.gwu.edu/mod/exam_schedules)
  - GWU Academic calendar [http://www.gwu.edu/ac.cfm](http://www.gwu.edu/ac.cfm)

**Grading Policy:** The final grade is computed as follows:

- Quizzes and Homework: 30%
- SPSS Project: 5%
- Midterm Exam: 30%
- Final Exam: 35%

**Make-Up Policy:** No make-up exams are allowed, except under extraordinary circumstances such as a death in the family or a medical emergency. In such cases, I will require written proof 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.
LEARNING OUTCOMES
As a result of completing this course, students will be able to:
1. Know and familiarize with the probability tools that are imminent to Statistics
2. Calculate the probabilities of events under natural assumptions on the population.
3. Analyze datasets to infer about a characteristic of interest in a population
4. Apply the Statistical techniques in problems of interest and obtain useful conclusions.

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)
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 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.

To Report an Emergency or Suspicious Activity
Call the University Police Department at 202-994-6111 (Foggy Bottom) or 202-242-6111 (Mount Vernon).

Additional emergency information may be obtained by visiting the Campus Advisories webpage (http://CampusAdvisories.gwu.edu) or calling the GW Information Line at 202-994-5050.

Note: STAT 1051, 1053, 1091, 2104, 1111, and 1127 (Old course numbers STAT 51, 53, 91, 104, 111, and 127) 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 1053.