Syllabus
STAT 1053-10, Spring 2015
Introduction to Statistics in Social Science

Class Schedule: WF, 12:45 – 2:00 pm.
Location: Funger Hall, Room 103

Instructor: Professor Tapan Nayak
Campus Address: Rome Hall, Room 567
Phone: (202) 994-6549
E-mail: tapan@gwu.edu
Office hours: WF, 3:00-4:30 pm. Other times are available by appointment.


Note: Stat 1051, 1053, 1111, and 1127 are related in their subject matter, and credit for only one of these four courses may be applied toward a degree.

Course description
This course introduces some basic concepts and methods in probability and statistics. Topics include frequency distribution, descriptive measures, probability, sampling distribution, estimation, hypotheses testing, regression and correlation.

Learning Focus and Approach: Logical thinking and understanding; active learning. Think, write and talk in complete sentences and sensibly. Describe the context clearly. Arguments should be coherent and make common sense. Take ownership of what you write or say. Totally avoid mechanical “plug-in numbers in formulas” mode. Before you use a formula, you must explain why that formula is appropriate.

Learning outcomes
As a result of completing this course, students will be able to:
1. Summarize data and draw conclusions from them.
2. Calculate and interpret probabilities.
3. Construct confidence intervals and perform tests of hypotheses.
4. Perform a simple linear regression and interpret results.

CLASS POLICIES:
1. Students should attend all classes and recitations and engage in class activities.
2. Laptops, cell phones and other electronic devices must be turned off during lectures and recitations.

Grading Policy: HW 10%; Quizzes 25%; Midterm Exam 30%; Final Exam 35%.

Notes: 1. All quizzes will be closed book and unannounced. Always bring the textbook and a calculator. Quizzes may cover material discussed in the same class. No make up
**quiz will be given; do not ask for make up quizzes.** Two lowest quiz grades will be discarded.

2. Late HW will not be accepted, without a compelling reason, which you must communicate to me and your TA promptly.

3. The midterm and the final exams are open book. You may also bring and use two pages of notes. You **must** bring your **textbook** and a **calculator** for all exams.

4. The Midterm Exam will be given on **March 4, 2015**.

5. Make up midterm will not be given, except for very special circumstances.

6. The final exam will be based on the entire syllabus and will be given following the University’s final exam schedule.

**Lesson Plan (tentative):**

<table>
<thead>
<tr>
<th>Material</th>
<th>Discussion dates (tentative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch. 1 &amp; 2</td>
<td>1/14 – 1/23 (4 lectures)</td>
</tr>
<tr>
<td>Sec. 3.1-3.6</td>
<td>1/28 – 2/4 (3 lectures)</td>
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<tr>
<td>Sec. 4.1-4.4</td>
<td>2/6 – 2/13 (3 lectures)</td>
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<tr>
<td>Sec. 5.1-5.5, 5.5</td>
<td>2/18 – 2/25 (3 lectures)</td>
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<tr>
<td>Sec. 6.1-6.3</td>
<td>2/27 – 3/18 (3 lectures)</td>
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<tr>
<td>Sec. 7.1-7.5</td>
<td>3/20 – 3/27 (3 lectures)</td>
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<tr>
<td>Sec. 8.1-8.6</td>
<td>4/1 – 4/8 (3 lectures)</td>
</tr>
<tr>
<td>Ch. 11</td>
<td>4/10 – 4/17 (3 lectures)</td>
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<tr>
<td>Sec. 9.1-9.5</td>
<td>4/22 – 4/24 (2 lectures)</td>
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**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](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.