Introduction to Business and Economic Statistics
STAT 1051

1 When, Where and Who

1. **Time**: Monday and Wednesday, 6:10 - 8:00 p.m. Recitation as announced.
2. **Room**: Rome 204.
3. **Instructor**: Dr. Timothy P. Keller
4. **Office Hours**: Monday and Wednesday, 5:10 - 6:00 p.m.
5. **E-mail**: tkeller@gwu.edu

2 Materials

The primary source for lectures, homework exercises and examinations will be my lecture notes. Supplementary readings are provided by the text: *Statistics for Business and Economics* (12th edition) (McClave, Benson, and Sincich).

A calculator is required. A simple model that adds, subtracts, multiplies and divides, has a memory and a square root key will suffice. You may certainly use a more sophisticated model, but be able to actually *use* whatever calculator you choose.

3 Basis for Evaluation

1. **Homework**
   Homework problems will be assigned every week, if not every lecture.

2. **Examinations and Final**
   Examinations and the final will be closed-book, closed notes. Tentatively, the first examination will cover sections 1 to 8 of the course notes; the second examination will cover sections 9 -12. The final will be comprehensive.
Make-up examinations will be granted for medical reasons, or with written documentation of required attendance at a university sanctioned event.

4 Grading

Grades will be based on homework problems, two examinations during the semester, and a final examination. Each of these four components account for 25% of the overall grade. A score of 90% is a guaranteed 'A'; a score of 80% is a guaranteed 'B'; a score of 70% is a guaranteed 'C'.

Advice Examinations may not be easy, but they should not be a surprise. Before each examination a practice examination with solutions will be presented. Study it. Complete any calculations left unfinished in the notes or in lecture, and make sure you can fill in the details. I am very fond of optional problems, both for homework and examination questions. They are, of course, optional. Nevertheless, I would recommend that you do at least some of them.

1. Optional problems can be used as make-ups for homeworks you might (by some remote, inconceivable chance) miss.
2. Optional problems can serve as 'extra-credit'.
3. Optional problems are often interesting and challenging, - and one might learn something!

5 Learning Outcomes

Students of STAT1051 upon completion of the course will be able to

1. apply laws of probability
2. construct and interpret large-sample and small-sample confidence intervals
3. evaluate evidence for and against hypotheses using statistical tests
4. find the least-squares equation for simple linear regression and assess the utility of the model

6 Administrative Matters

Academic Integrity

I personally support the GW Code of Academic Integrity which 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/ integrity/code.html

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)

The University Counseling Center (UCC), 202-994-5300, offers continuous 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 case of an emergency, even in the case of a fire drill or false alarm, the class will go home.

Note on Course Credit

Stat 1051, 1053, 1111, and 1127 are related in their subject matter, and credit for only one of these courses may be applied toward a degree. One entrance unit in algebra is prerequisite to all courses in statistics.