**Introduction to Business and Economic Statistics - STAT1051**

**Time:** Monday and Wednesday 5:10 - 7:00 p.m. with Lab as announced.

**Room:** Funger Hall Room 220 Monday and Phillips Hall Room B152 Wednesday

**Instructor:** Charles Fleming

**Office Hours:** Monday and Wednesday 4:10-5:00 p.m.

**WWW:** http://home.gwu.edu/~flemingc  
**e-mail:** flemingc@gwu.edu

**Textbook:** *The Practice of Statistics for Business and Economics* by David S. Moore, George P. McCabe, Layth C. Alwan, and William M. Duckworth  
**Optional Textbook:** *Basic Statistics* by Charles M. Fleming

**Supplies:** Calculator

**Description:** This is a general survey course in elementary statistics that will broadly cover the five topics of descriptive statistics, probability, sampling, inference, and the testing of hypotheses. The lectures will be based on the first ten chapters of the Moore textbook.

**Grading:** Assigned homework problems will be discussed in lab, but the homework will not be graded. There will be a total of ten full length quizzes and weekly short quizzes. All quizzes will be closed-book and closed-notes. The tenth and last full length quiz will be mandatory. The scores of all short quizzes will count. The highest seven scores of the first nine full length quizzes will be used in computing the quiz average. In addition to the quizzes, there will be four graded computer assignments, a Mid-term Examination, and a Final Examination. There will be no make-up examinations and no make-up quizzes.

The course point structure and tentative schedule of exams are:

<table>
<thead>
<tr>
<th>Weight</th>
<th>Date</th>
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<tbody>
<tr>
<td>Quiz Average</td>
<td>25%  Weekly</td>
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<tr>
<td>Short Quiz Average</td>
<td>10%  Weekly</td>
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<tr>
<td>Computer Assignment Average</td>
<td>10%  Monthly</td>
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<tr>
<td>Mid-term Exam</td>
<td>25%  7 March</td>
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<tr>
<td>Final Exam</td>
<td>30%  7 - 15 May</td>
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The semester grade will be assigned according to the following scale:

<table>
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<tr>
<th>Grade Scale for STAT 51</th>
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<tr>
<td>F  D-  D+  C-  C  C+  B-  B  B+  A-  A</td>
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<tr>
<td>56  60  64  68  72  76  80  84  88  92  96  100</td>
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**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

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: 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.