

*Dixie State College – Udvar-Hazy School of Business*  
*STAT2040 – Business Statistics*

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Office Hours: Tuesdays, after class; or by appointment

**Prerequisites:**

CIS1200 (Computer Literacy)  
MATH1010 (Intermediate Algebra)

**Required Materials**

1. Class Notes – Available in the bookstore - Prepared by Kyle S. Wells, PhD. Each student must have their own copy.
2. Calculator
3. Access to MS Excel<sup>®</sup> or comparable program
4. Elementary Statistics using Excel<sup>®</sup> by Mario F. Triola, 3<sup>rd</sup> or 4<sup>th</sup> Edition (Recommended, not required)

**Overview**

Although this is technically a first course in business statistics, the goal of the course will be to progress quickly to a more advanced, applied inferential statistics. The goal is to learn how statistics can be used as a managerial decision making tool.

Computer statistical packages will be used to enhance your understanding of computers and how to read and interpret statistical output. The primary statistical package that you will learn how to use will be MS Excel<sup>®</sup>.

**Course Objective**

1. Recognize, calculate and interpret statistical terms.
2. Perform statistical analyses in MS Excel<sup>®</sup>.
3. Present data in a memo format such that an audience is adequately informed and the data is portrayed with fidelity.
4. To learn and practice a variety of problem solving techniques.
5. Improve analytical problem solving ability.
6. Be exposed to issues relating to ethics in statistical reporting.

**Attendance**

You are not required to attend every class and I will not penalize you for absences. However, you are responsible for all material presented in class, regardless if you were present or not and I do not accept any late homework. Assignments, cases and test due dates will be given in class.

**Notes and Problem Sets**

Class notes are intended as an overview of the statistical concepts taught in this class. I recommend that you review the Section of the Class Notes we will be reviewing in class before the first class scheduled for that material.

The Problems Sets will be assigned after every section. These problem sets are designed to review the material we cover in class as well as important material which we may not cover in class. The problem sets must be submitted in class on the due dates given in class. Solutions for the problem sets will be available once they have been submitted and graded. The problems assigned are indicative of the test questions.

### Cases and Readings

Selected cases will be handed out during the semester. Students are encouraged to work together and I will be assigning you to groups for the case studies and a single case memo is acceptable for each group.

We will be discussing the cases during classes and Students from the class may be chosen randomly and “cold-called” during the case discussion. A portion of the case study points will be awarded as Participation or Presentation credit and will be awarded to those students able to answer questions from the case in class when due.

### Data Sets

All data sets will be sent via email. They may be sent as text files. This will require you to import them into the statistical software of your choice. We will discuss how this is to be done in class. It is your responsibility to ensure that you receive the data set prior to completing the required assignment associated with that particular data set.

### Examinations

There will be three in-class exams. You may use a calculator, MS Excel and your notes during these exams. These are timed tests. Partial credit may be available and will be awarded as deemed appropriate by your instructor.

If you will not be available on the day of the exam, you must notify me ahead of time. I will not allow exams to be taken after the exam dates and make-up exams are not permitted. In extreme cases, I may allow the points allotted to an exam to be re-allotted to another exam. This will be at my discretion and will be only used in rare and extenuating circumstances.

### Course Grade Computation

Your course grade is based on a point system. The point allocation for exams and homework is:

	Points	Points	Grade
		>93	A
Problem Sets	15	90 to 92.9	A-
Cases/Presentations	36	87 to 89.9	B+
Test 1	15	83 to 86.9	B
Test 2	15	80 to 82.9	B-
Final	20	77 to 79.9	C+
Total Possible	<u>106</u>	73 to 76.9	C
		70 to 72.9	C-
		<70	D/F

**How to do well in this course:**

- **Review the class notes in advance of class!** This is critical. I recommend that you review your personal notes and the class notes at least once a week. Don't wait until the weekend prior to a test. That's not the best time to realize that you don't understand something.
- Come to class. Participate in class discussions. Form or join and participate in a study group.
- Do all the assigned readings, homework assignments, and suggested study problems and questions.
- Come in during office hours or make an appointment to meet at our offices whenever you're having difficulty or have questions you would like to discuss outside of class.

**Class Communication/Dmail**

You are required to frequently check your dmail account. Important class and college information will be sent to your dmail account, including DSC bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSC and in your courses. If you don't know how to access your dmail account, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail" from the left column. To locate your dmail username and password, go to [www.dixie.edu](http://www.dixie.edu), and click on "Log in to student services" (upper right corner).

**Americans with Disability Act**

If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability.

You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

Our office is located right next to the Testing Center on the bottom floor of the Financial Aid and Career Center building.

**Scholastic Behavior**

All students are expected to uphold standards of academic honesty. Failure to uphold school policies relating to behavior (plagiarism, cheating, etc.) may result in failure of and/or expulsion from the class. Specific DSC policy regarding academic dishonesty can be found in the DSC Policies and Procedures Manual policy 34.

**Approximate Schedule\***

<b>Week</b>	<b>Topic</b>	<b>Section #</b>	<b>Assignments</b>
1 Jan. 11 & 13	Introduction & Ethics in Statistics Descriptive Statistics		
2 Jan. 18 & 20	Descriptive Statistics	SEC1	Problem Set 1
3 Jan. 25 & 27	Probability	SEC2	Problem Set 2
4 Feb. 1 & 3	Discrete Random Variables	SEC3	Problem Set 3
5 Feb. 8 & 10	Sampling Distributions	SEC4	Problem Set 4
6 Feb. 15 & 17	Sampling Distributions & Case Study		#1 Case Study w/ write-up
7 Feb. 22 & 24	Review & <b>Test 1 – Sampling Distributions</b>		
8 Mar. 1 & 3	Estimation from Sample Data	SEC5	Problem Set 5
9 Mar. 8 & 10	Hypothesis Testing: Single Sample	SEC6	Problem Set 6
10 Mar. 15 & 17	Spring Break - No Class		
11 Mar. 22 & 23	Hypothesis Testing: Two Samples Case Study	SEC7	Problem Set 7 #2 Case Study w/ write-up
12 Mar. 29 & 31	Review & <b>Test 2 – Hypothesis Testing</b>		
13 Apr. 5 & 7	Correlation & Regression	SEC8	Problem Set 8

14 Apr. 12 & 14	Multiple Linear Regression	SEC9	#3 Case Study w/ write-up
15 Apr. 19 & 20	Multiple Linear Regression	SEC9	
16 Apr. 26 & 27	Review <b>Final Exam - Comprehensive</b>		

\* **NOTE:** Schedule subject to change.

For final exam dates and other important dates, see the following link:

<http://new.dixie.edu/reg/?page=schedule>

Other important resources:

Library - <http://library.dixie.edu>

Writing Center - [http://dixie.edu/english/dsc\\_writing\\_center.php](http://dixie.edu/english/dsc_writing_center.php)

Testing Center - <http://dixie.edu/testing>

Tutoring Center - <http://dsc.dixie.edu/tutoring/>