

**Dixie State College of Utah  
Department of Mathematics  
Spring 2008 Course Syllabus**

**COURSE:** Math 1040--50, Elementary Statistics, M 5:00 ~ 7:30 PM  
Classroom: NIB 150, 3 Credit Hours

**INSTRUCTOR:** Dr. Clare Banks, [banks@dixie.edu](mailto:banks@dixie.edu) Office: NIB 138 Phone: 652-7982  
Office Hours: MTWR 9 ~ 9:50 AM, F 10:00~10:50 AM and by appointment.

**REQUIRED :** Larson, R. & Farber, B. (2005), *Elementary Statistics* (3<sup>rd</sup> ed.).  
**TEXT** Dretzke, B., McLaughlin, K. & Wakefield, D. (2006) *Technology Manual for Elementary Statistics* (3<sup>rd</sup> ed.). NJ: Pearson Prentice Hall.

**PREREQUISITES:** C or better in Math 1010 or ACT Math score of 23 or higher.

**CALCULATOR:** TI-83 calculator is required.

**COURSE WORK:** The student's final grade will be determined by her/his performance on homework, exams, class activities, final project/report, & labs.

- *Final Exam:* Monday, April 28<sup>th</sup>, 5 ~ 7:30 p.m.  
The exam will not be cumulative.
- *Homework:* Homework will be assigned and collected regularly. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Show all work. Neatness is important. Do not hand in incomplete homework. Check your answers in the back of the text when possible. Clearly label your homework with chapter and section numbers. Start each section with a clean page. Please do not staple more than one section together.
- *Exams:* There will be 3 exams. Each exam will be worth 100 points. No makeup exams will be given except in the case of a documented illness. One page of notes (8.5 x 11 both sides) will be allowed for each exam. You are allowed to put down the formulas on the paper, **examples are not allowed**.
- *Labs:* There will be 4 labs assigned and collected. The labs will use the software program EXCEL and/or TI-83 calculator.
- *Class activity* – There will be various in-class activities distributed which will be done in groups. Such activities may **not** be made up.
- *Grading:* Exams – 60%, HW – 10%, Labs – 15%, Class Activity – 15%
- *Attendance:* Attendance is essential and roll will be taken, but will not be counted into your grade. You are responsible for all announcements and materials presented in the class.

**GRADES:** Grades will be assigned as follows:

Percent	Grade	Percent	Grade	Percent	Grade
94-100	A	80-82	B-	60-64	D+
90-93	A-	75-79	C+	55-59	D
87-89	B+	70-74	C	50-54	D
83-86	B	65-69	C-	<50	F

**DISABILITIES:** If you are a student with a documented physical or mental impairment that will substantially limit a major life activity, please contact the Disability Resource Center on the main campus. The Center Coordinator and staff will assist you in analyzing your eligibility for

services. If you are deemed eligible, reasonable accommodations that are appropriate for your disability will be assigned. If you have any questions concerning this process, please contact the Center at 652-7516; we are located in the Student Services Center, Room #201 of the Edith Whitehead Building.

**REBELMAIL:** Important class and college information will be sent to your Rebelmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Rebelmail email account. If you don't know your user name and password, go to [www.dixie.edu](http://www.dixie.edu) and select "Rebelmail," for complete instructions. You will be held responsible for information sent to your Rebelmail email, so please check it often.

**COURTESY, ETC:** No headphones during class or tests. Cell phones should be off. Please do not come late or leave early.

**CHEATING:** If it is determined that you cheated, you will receive a zero for that exam. If cheating occurs a second time, you will receive an F for the course.

**HELP:** I am available during my office hours and by appointment. Browning Resource Center also has tutors available. Group study is highly recommended.

**SUCCESS:** To be successful in this course, follow these guidelines: 1) read before class, 2) attend all classes, 3) do all homework, 4) study each day – do lots of practice problems, 5) seek help immediately if you are lost, 6) have fun!

**OBJECTIVES:** All classes in mathematics at Dixie College support the general education goal of the college. Each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

The purpose of the course is to introduce the basic principles and theories of statistics to students. As a result of successful completion of this course, a student will be able to:

- Understand descriptive statistics such as mean, median, mode, and standard deviation.
- Use and interpret graphs representing data.
- Identify the properties of normal distribution.
- Construct confidence intervals and determine sample sizes.
- Use statistical techniques to test hypotheses.
- Analyze data using correlation and regression.
- Use EXCEL computer program to perform statistical calculation, organize data, and construct graphs.

### **Weekly Course Outline:**

Jan 7 1-1, 1-2, 2-1  
Jan 14 2-2~2-5, 3-1  
Jan 21 No Class  
Jan 28 3-2, 3-3, 3-4  
Feb 4 **Exam I**  
Feb 11 4-1, 4-2, 4-3  
Feb 18 No Class  
Feb 25 5-1~5-3

Mar 3 5-4, 6-1, 6-2  
Mar 10 No Class  
Mar 17 **Exam 2**  
Mar 24 6-3, 6-4, 7-1  
Mar 31 7-2, 7-3, 7-4  
Apr 7 9-1, 9-2  
Apr 21 Article Presentation  
Apr 28 **Exam 3**

### **Homework:**

1.1 1~6, 7~21 odds, 25  
1.2 7~19 odds

#### **Lab 1**

2.1 5~15 odds, 19, 23, 25, 31  
2.2 7, 9, 15, 21  
2.3 5~8, 13~19 odds, 27, 29, 31, 33,  
39, 45  
2.4 7, 9, 11, 13, 17, 29, 31  
2.5 3, 7, 11, 15, 21 ~ 27 odd

#### **Lab 2**

3.1 1, 3, 5, 9, 11, 15, 17, 21, 23  
3.2 1, 5, 7, 9, 11, 15, 19  
3.3 5, 9, 13, 15, 17  
3.4 7, 9, 11, 13, 21, 25

#### **Exam One**

4.1 7~29 odd, 33, 35  
4.2 3~19 odd  
5.1 9, 11, 15, 17, 23, 27, 37  
5.2 5, 9, 11, 21~29 odds  
5.3 5~29 eoo  
5.4 13, 17, 21, 23, 31, 33  
5.5 5, 9~16, 21, 23abc

#### **Lab 3**

#### **Exam Two**

6.1 1, 3, 5, 15, 17, 28, 31, 33, 47, 61  
6.2 11~15 odd, 21, 23  
6.3 1,3,7,11,13,15,19,23  
6.4 1~15 odd  
7.1 23~39 odd  
7.2 39,41,43  
7.3 23~27 odd  
7.4 9~13 odd  
7.5 16,21,23

#### **Lab 4**

#### **Exam Three**

8.1 11,15,19  
8.2 17,19,21  
8.3 19,21,27  
9.1 15, 19, 25, 27  
9.2 13, 15,19, 25  
10.1 9, 11, 13, 15  
10.2 13, 15  
10-3 17, 19, 21

#### **Exam Four**

**The instructor reserves the right to change any of the information on the syllabus**