Dixie State College of Utah
Department of Mathematics
Summer 2008 Course Syllabus

COURSE: Math 1040--01, Elementary Statistics, TWR 11:00 ~ 12:50 PM
Classroom: NIB 144, 3 Credit Hours

INSTRUCTOR: Dr. Clare Banks, banks@dixie.edu *Office*: NIB 138 *Phone*: 652-7982
Office Hours: TWR 10:30 ~ 11 AM, 4:30~5 PM, and by appointment.

REQUIRED TEXT: Larson, R. & Farber, B. (2005), *Elementary Statistics* (3rd ed.).
Dretzke, B., McLaughlin, K. & Wakefield, D. (2006) *Technology Manual for Elementary Statistics (3rd 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.

- *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 4 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**.
- 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 – 20%, Class Activity – 20%

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 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 correction and regression.
- Use EXCEL computer program to perform statistical calculation, organize data, and construct graphs.

Weekly Course Outline:

Summer 2008 –Tentative Schedule

Sun	Monday	Tuesday	Wednesday	Thursday	Friday	Sat
	19	20 1-1 ~ 1-3	21 2-1 ~ 2-3	22 2-4, 2-5	23	24
25	26	27 3-1, 3-2	28 3-3, 3-4	29 Review	30	31
June 1	2	3 ***Exam 1***	4 4-1, 4-2	5 5-1, 5-2	6	7
8	9	10 5-3, 5-4	11 5-5, Review	12 ***Exam 2***	13	14
15	16	17 6-1, 6-2	18 6-3, 6-4	19 7-1, 7-2	20	21
22	23	24 7-3, 7-4	25 7-5, Review	26 ***Exam 3***	27	28
29	30	***July*** 1 8-1, 8-2	2 8-3, 9-1	3 9-2, 9-3	4	5
6	7	8 Review	9 Presentation	10 ***Exam 4***	11	

Homework:

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

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 3, 7, 9, 11, 13, 17, 29, 31
2.5 3, 7, 11, 15, 21 ~ 27 odd

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, 23ab

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

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
9.3 5, 7

Exam Four