

Dixie State College of Utah
Math 1040-01 Elementary Statistics, Spring 2009
TR 10:30 ~ 11:50 NIB 135 CRN: 20412

INSTRUCTOR: Dr. Clare Banks, banks@dixie.edu Office: NIB 138 Phone: 652-7982
Office Hours: TWR 10:30 ~ 11 AM, 4:30~5:00 PM and by appointment.

REQUIRED : Larson, R. & Farber, B. (2009), *Elementary Statistics* (4rd ed.).
TEXT Dretzke, B., McLaughlin, K. & Wakefield, D. (2009) *Technology Manual for Elementary Statistics* (4th ed.). NJ: Pearson Prentice Hall.

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

CALCULATOR: TI-83 or TI-84 calculator is required.

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

- *Final Exam:* Thursday, July 23th , 9:00~ 10:50 p.m.
The exam will not be cumulative.
- *Homework:* Homework will be assigned and collected on Tuesdays. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Show all work. 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.
- *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.**
- *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 – 15%, Labs – 10%, 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: A(94~100%), A-(90~93%), B+(87~89%), B(83~86%), B-(80~82%), C+(75~79%), C(70~74%), C-(65~69%), D+(60~64%), D(55~59%), D-(50~54%), F(0~49%)

DISABILITIES: 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.

DMAIL: Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, and 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 Dmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

IMPORTANT DATES: Please see <http://new.dixie.edu/reg/?page=spring2009> for important dates.

ACADEMIC DISCIPLINE If cheating or disruptive behavior occurs the instructor will follow academic discipline procedures 34.1 & 34.2 , as explained at <http://www.dixie.edu/humanres/policy/sec3/334.html>

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

- 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 computer program and/or calculator to perform statistical calculation, organize data, and construct graphs.

Weekly Course Outline (Tentative)

TUE	Wednesday	THU
2 June 1-1~1-3	3 2-1~2-3	4 2-4, 2-5
9 3-1,3-2	10 3-3, Review	11 Exam I
16 4-1, 4-2	17 5-1, 5-2	18 5-3, 5-4
23 5-5 Review	24 Exam II	25 6-1, 6-2
30 6-3, 6-4	1 July 7-1, 7-2	2 7-3, 7-4
7 7-5, Review	8 Exam III	9 9-1, 9-2
14 9-3	15 10-1, 10-2	16 10-3
21 10-4	22 Review	23 Exam IV

- 1.1 1~6, 7~37 eoo
- 1.2 7~23 odds
- 1.3 1, 6, 8, 11~15, 29, 30
- 2.1 9, 11, 13, 17, 23, 27, 33
- 2.2 9, 11, 17, 21, 23
- 2.3 1~49 eoo
- 2.4 7~13 odds, 14, 17, 21, 29, 31
- 2.5 11, 21, 23, 27, 31, 37
- 3.1 1, 5~15 odds, 25, 27, 29, 43
- 3.2 1, 15, 19, 23
- 3.3 1~19 odds
- 4.1 9~31 odds, 37, 45
- 4.2 7~19 odds, 25
- 5.1 9~21 odds, 35, 45
- 5.2 5, 9, 11, 23~29 odds
- 5.3 5~17 eoo, 39, 41
- 5.4 17, 21, 25, 27, 35, 37

- 6.1 31, 37, 39, 41, 51, 55a
- 6.2 13, 15, 17, 23, 25
- 6.3 1~19 odds, 23
- 6.4 1~15 odds
- 7.1 1~7 odds, 23~29 odds
- 7.2 1, 3, 5, 39, 41, 43
- 7.3 19~27 odds
- 7.4 1~13 odds

- 8.1 21, 25, 29
- 8.2 17, 19, 21
- 8.3 21, 25, 29
- 9.1 15, 19, 25, 27
- 9.2 13~19 odds
- 10.1 9, 11, 13, 15
- 10.2 17, 19
- 10.4 7, 9

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