

SPRING 2012
MATH 1040-04 SYLLABUS
ELEMENTARY STATISTICS (CRN 24458)
3 credit hours (NIB 150)

Instructor: Yoo-Jung Scott **Class Time:** 11:00-11:50PM M,W, F

Email address: yscott@dixie.edu **Office Room:** NIB 134

Office Hours: 9:00-9:50AM M,W, F

Course Prerequisites

C or better in Math1010 or ACT Math score of 23 or higher.

Required Materials

- Text Book: **ELEMENTARY STATISTIC 5th** edition by Larson, R. & Farber, B.
- **Technology manual for elementary statistics** 5th edition by Dretzke, B., McLaughlin, K. & Wakefield, D.
- You need to have one of the following graphing calculators: TI-83, TI-84, or TI-89.

Course Description

All mathematics classes at Dixie State College support the general education goal of the college, and 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 for one-sample mean, proportion and variance.
- Use statistical techniques to test hypotheses for two-sample mean and proportion.
- Analyze data using correlation and regression.
- Apply Goodness fit test, Chi-square test for independence, two-sample F-test for variance and analysis of variance (ANOVA) technique.
- Use computer program or graphing calculator to perform statistical calculation, organize data, and construct graphs.

Disabilities

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator (Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

Dmail

All information sent from the college or the instructor will be sent to your Dmail account. You MUST check that email account frequently. You are responsible for knowing what is contained within those messages.

Policy for Absences Related to College Functions

Please refer to college student policy **5.23 Attendance.**

<http://www.dixie.edu/humanres/polstu.html>

Important dates/deadlines

<http://www.dixie.edu/reg/calendar.html>

Resources

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

Writing Center - http://new.dixie.edu/english/dsc_writing_center.php

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

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

Course Work

- Homework: Homework will be assigned every class and collected on each test. Points will be deducted by two points per day for late homework. The homework may be graded on a scale from 0-10. Show all work. Neatness is everything. Do not hand in incomplete homework. Most of the time, a list of answers is not sufficient, you must show work. Check your answers in the back of the text when possible. Clearly label your homework with chapter and section numbers. Please order and staple your homework before turn in.
- Exams: There will be FIVE exams. Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of instructor, and only if prior arrangements have been made. In order to take a make-up exam, you will need to provide a proper documentation; otherwise, you will receive a zero.
- Labs: There will be 2 labs using Excel assigned. **Labs cannot be made up for any reason.**
- Grading: Exams: 500-points, Homework: 100-points, Labs: 30-points. Grades will be assigned as following:
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%)
- Attendance: Attendance is essential but will not be counted into your grade. You are responsible for all announcements and materials presented in the class.

Assignments and Tentative Schedule

Course schedules, assignments, and exam dates are subject to change as circumstances dictate. It is the responsibility of each student to attend the class and get the updated info.

| Date | Section | Homework Assignments |
|--------|------------------|--|
| M 1/9 | 1.1 1.2 | 1.1: 1~10, 11~37 odd 1.2: 7~23 odds |
| W 1/11 | 2.1 | 2.1: 5~31 odd 2.2: 9~17, 23 |
| F 1/13 | 2.3 | 2.3: 1~16, 17~49 odd |
| M 1/16 | No School | Martin Luther King Jr. Day |
| W 1/18 | 2.4 | 2.4: 7~13 odd, 17~25 odd, 29~33 odd |
| F 1/20 | 2.5 | 2.5: 3, 7, 11, 15, 23 ~ 33 odd Review |
| M 1/23 | No Class | Test 1 (At Testing Center: 1/23~1/25) |
| W 1/25 | 3.1 | 3.1: 1, 5, 11, 13, 15, 21-25, 27, 41, 43, 45, 47-50 Lab I (Bring a laptop that has Excel program) Chapter 1 & 2 HW Due |
| F 1/27 | 3.2 | 3.2: 1, 5~15 odd, 19, 23 |
| M 1/30 | 3.3 | 3.3: 5, 9, 13, 15, 17 |
| W 2/1 | 3.4 | 3.4: 7, 9, 15~25 odd |
| F 2/3 | 4.1 | 4.1: 9~31 odd, 37 |
| M 2/6 | 4.2 | 4.2: 9~19 odd, 25 |
| W 2/8 | | Review Chapter 3 & 4 HW Due |
| F 2/10 | No Class | Test 2 (At Testing Center: 2/10~2/12) |
| M 2/13 | 5.1 | 5.1: 9~37 odd, 55, 59 |
| W 2/15 | 5.2 | 5.2: 5, 9, 11, 21~29 odds |
| F 2/17 | 5.3 | 5.3: 5~29 eoo |
| M 2/20 | No School | President's Day |
| W 2/22 | 5.4 | 5.4: 17, 21, 25, 27, 35, 37 |
| F 2/24 | 5.5 | 5.5: 5, 9~16, 21, 23 |
| M 2/27 | 6.1 | 6.1: 1, 3, 5, 15, 17, 23, 27, 31, 35, 37, 51, 65 |
| W 2/29 | 6.2 | 6.2: 13~17 odd, 23, 25 |
| F 3/2 | 6.3 | 6.3: 1, 3, 7, 11, 13, 15, 19, 23 |
| M 3/5 | 6.4 | 6.4: 1~15 odd |
| W 3/7 | | Review |
| F 3/9 | No Class | Test 3 (At Testing Center: 3/9~3/11) |
| M 3/12 | No School | Spring Break (3/12~ 3/16) |

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| M 3/19 | 7.1 7.2 | 7.1: 23~39 odd 7.2: 39,41,43 Chapter 5 & 6 HW Due |
| W 3/21 | 7.3 | 7.3: 23~27 odd |
| F 3/23 | 7.4 | 7.4: 9~13 odd |
| M 3/26 | 7.5 | 7.5: 16,21,23 |
| W 3/28 | 8.1 | 8.1: 21,25,29 |
| F 3/30 | 8.2 | 8.2: 17,19,21 |
| M 4/2 | 8.3 | 8.3: 11,13 |
| W 4/4 | 8.4 | 8.4: 9,11,13 |
| F 4/6 | | Review |
| M 4/9 | No Class | Test 4 (At Testing Center: 4/9~4/11) |
| W 4/11 | 9.1 | 9.1: 15, 19, 25, 27 Chapter 7 & 8 HW Due |
| F 4/13 | 9.2 | 9.2: 13, 15, 19, 31 |
| M 4/16 | 10.1 | 10.1: 9 ~ 15 odd |
| W 4/18 | 10.2 | 10.2: 17, 19 |
| F 4/20 | 10.3 | 10.3: 17~21 odd |
| M 4/23 | 10.4 | 10.4: 7, 9 |
| W 4/25 | | Review Lab II (Bring a laptop that has Excel program) Chapter 9 & 10 HW Due |
| Final Exam (Chapter 9&10): <u>In class</u> on Wednesday, May 2 10:00am-12:00pm | | |