Introductory Statistics Syllabus--P. Staley Spring 2011

- **Instructor: Patrick Staley**
  - Office: 390D
  - Office hours: 1:30-2:20PM Mon-Fri
  - Website: www.staley-classes.org
  - Email: patrick@mr-ideahamster.com
  - Telephone: 619-4216700, ext 5521
- **Textbook: Basic Practice of Statistics Fifth Edition, by David Moore.**
  - Textbook on Amazon
  - Textbook Author's Website
- **Prerequisite: Math 70 or equivalent with grade of C or better.**
  - SWC Math 70 Course Outline
- **Class Meetings   Mon Wed Fri**
  - section 03 8:30-9:45am room 344
  - section 05 10:00-11:15am room 344
  - section 08 12:00-1:15pm   room 343
- **Graphing and Calculating Tool -- Excel**
  - Students will use the Excel spreadsheet program. Excel is available on all the student computers in the School of Math Science and Engineering. Exams will require a scientific calculator.
- **Course Description**
  - This is an introductory class of practical statistics. Specific topics include--

    Picturing data with graphs
    Describing Distributions with numbers
    Normal distributions
    Correlation and linear regression
    Sampling
    Experiment design
    Elementary probability
    Samples and Populations
    Binomial distributions
    Confidence intervals
    Tests of significance
    Inference errors
    Inferring a population mean
    Inferring a population proportion

- **Attendance Policy**
  - Students are expected to attend all lectures. If a student misses excessive class time, he/she may be dropped. Attendance is taken with a seating chart. Missing the second hour of a two hour class will be marked as an absence. All absences are the same, i.e. there are no "excused" absences. A student with four or more tardies may be dropped from the class.
- **Electronic Devices Policy**
  - During lecture and exams please turn off all phones, pagers, music devices, tape recorders, etc.
- **Special Accommodations**
  - Southwestern College recommends that students with disabilities discuss academic accommodations with their professors during the first two weeks of class. An alternate form of this syllabus is available upon request.
- **Homework**
  - There will be homework due for every chapter. Repeated failure to complete homework assignments will be identified as non-performance. The assigned homework problems will be posted on the class website.
  - Homework Assignments by Chapter
- **Grading**
  - Grade Computation
    - Your final grade will be a composite of five exams, a group project, and a Final Exam. The first three exams have both an in-class part (IC) and a do-at-home part (DAH). The fourth exam is an extensive in-class exam The final exam is comprehensive. The Final Exam and the group project are each weighted as one and one-half exams. Letter grades of A,B,C,D, or F are assigned to each exam, project, and the Final Exam. These are then incorporated into the final grade based on the weight assignments A=4, B=3, C=2, D=1, and F=0. There will be no make up tests. You should be able to access your current aggregate grade through the class website.
  - Example
    - Assume chapter test grades of B,D,B,B, B a group project grade of B, and final exam grade of A. Then class grade = (3+1+3+3+3*1.5+4*1.5)/8 = 2.94 = B (note that for the class grade A is 3.501 to 4.0, B is 2.501 to 3.5, C is 1.501 to 2.5, D is 0.9 to 1.5, and F is 0 to .89)
  - Exam Policies
    - No make-up tests.

      Knowing the correct answer to an exam question is insufficient—the correct answer must be written on the answer sheet.

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- Knowing the correct answer to an exam question is insufficient—the correct answer must be written on the answer sheet.
- Exam answers that confuse the grader will be marked wrong.
- Grade Notification
  - The class website, www.staley-classes.org, has the most current grade sheet. The grade sheet is password protected. You can access the grade sheet at any time after the first exam has been scored.
- **Class Website www.staley-classes.org**
  - www.staley-classes.org contains relevant information for this class including: homework assignments, current notes to students, information on exams, an updated syllabus, the current grade sheet (password protected), project descriptions, exam practice problems, practice tests, answers to practice tests, and other relevant information. So that you receive website update notifications please send an email message using the "get it" link under the appropriate "Notification" line. This will put you on the email notification list for the class.
- **Behavior Policies**
  - A student may be dropped from the class for excessive absences.
    - Excuses: There are no "excused" absences in this class. All absences are treated equally.
    - If you are going to be absent on an exam day make prior arrangements with the teacher. There are no makeup exams for no-shows on exam day.
    - Students who miss three classes are subject to being dropped.
  - A student may be excluded from the class for disruptive behavior.
  - This class adheres to all misconduct policies as stated in the current Southwestern College catalogue. Pages from Catalog2009-2010Updated
  - Cheating
    - Behavior indicative of cheating will be handled by an oral exam. behavior example
    - The oral exam is an investigation of the rational for the "behavior indicative of cheating". oral exam example
    - The outcome of this process will be one of: F grade on the exam, F grade for the semester, student drops the class, or reinstatement of the score.
    - This penalty also applies to any accomplice. So make sure that when you help someone they can defend their work.
- **Tutorial Services**
  - The MESA Center, located in room 396, provides free tutoring for this course.
  - The Academic Success Center in room 420 also offers tutoring for statistics.
  - Only a few of the tutors are qualified to tutor for this class. The names of the statistics qualified tutors should be known by the second week of class.
- **Projected Schedule**
  - week 1 –Chapter 1 ---   week 10 --Chapter 12
    week 2 --Chapter 2 ---   week 11 --Chapter 13
    week 3 --Chapter 3 ---   week 12 --Chapter 14
    week 4 --Chapter 4 ---   week 13 --Chapter 15
    week 5 --Chapter 5 ---   week 14 --Chapter 17
    week 6 --Chapter 8 ---   week 15 --Chapter 18
    week 7 --Chapter 9 ---   week 16 –Chapter 19
    week 8 --Chapter 10 ---   week 17 -- Group Project Presentations
    week 9 --Chapter 11 ---   week 18 --Final Exam
- **Final Exam**
  - The final exam is comprehensive. It consists of four parts:
    - memorization section--a simple regurgitation of some of the basic definitions and theorems
    - statistics knowledge--multiple choice questions
    - computational problems--very similar to the practice quiz questions
    - ztp procedures exposition--fill in the blank for a three page summary of the z, t, and proportion procedures.
  - Date/time for the final exam
    - Monday May 16 for all sections
    - section 3   8:00-10:00AM
    - section 5   10:30AM-12:30PM
    - section 8   1:00PM-3:00PM
- **Initial Assignment**
  - Buy the Textbook
  - Visit the Class Website Staley Classes Website
  - Sign up for the Notification Email List
    - subscribe request for 8:30AM class
    - subscribe request for 10AM class
    - subscribe request for 12PM class
  - Read Chapter 1