

STA 2023 — Introductory Statistics Syllabus

Keep this syllabus all semester

Tallahassee Community College, Summer A 2008	Instructor: Rex Abert
Section 001, Reference # 058591	Office: SM 277
MTWRF 9:00–10:15 am	Phone: 201-9790
Office Hours: M, F 10:30–11:30 am, T, R 6:30–7:30 pm or by appointment	E-mail: abertr@tcc.fl.edu

Important Dates

Last day to withdraw and receive a refund	May 12
Last day to change from audit to credit	May 27
Last day to withdraw and receive a grade of W	June 4
Final Exam	Wednesday, June 18, 8:55 - 10:35 am

Materials Required: Bring these materials to class every day!

- Textbook: *Statistics: Informed Decisions Using Data*, Second Edition, by Michael Sullivan, III, Prentice Hall, 2006.
- Calculator: TI-83 or equivalent. (See below)
- ID: A photo ID is required for tests and the final exam.
- Handouts will be provided by your instructor.
- Looseleaf notebook

Course Description: STA 2023 Introductory Statistics (3) F, Sp, Sm. Prerequisite: Grade of “C” or better in MAT 1033 or appropriate placement score. This course demonstrates how to apply selected statistical techniques to a wide variety of problems and situations arising in the areas of business, economics, finance, management, social science, health, psychology, and education. Topics include graphical description of data; measures of location and dispersion; probability; discrete and continuous random variables; sampling distributions and estimation; confidence intervals and hypothesis tests; simple linear regression and correlation. A TI-83, TI-84, or graphing calculator with equivalent statistical features is required. Lecture 3 hours.

Prerequisite: One of the following must be satisfied.

- A grade of “C” or better in MAT 1033
- Transfer credit with a grade of at least C in a course equivalent to MAT 1033
- Satisfactory score on placement test, SAT, or ACT.

Grading Policy: There will be four unit tests, quizzes and/or homework, and a final exam. Your grade will be computed with each of the following two formulas, and the higher average will be your grade for the course.

$$G = .1Q + .65U + .25E$$

$$G = .1Q + .5U + .4E$$

Where U = average of unit tests, Q = quizzes and homework, E = final exam score, and G = course grade

The grading scale is A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 0-59.

Assignments: Problems from the text will be assigned each class period. These exercises should be completed before the next class. Be sure to do ALL the assigned problems in order to gain an understanding of the material. Occasionally, a problem will be selected from the prior session's work to be turned in for a grade.

Testing: Four tests will be given (photo ID and calculator required) as listed in the pacing schedule unless changes are announced in class. The final exam is comprehensive and will be given on Wednesday, June 18, 8:55 - 10:35 am. Bring #2 pencils, TCC ID, and your calculator. No photo ID = No Exam!

Make-up Policy: The make-up policy is simple: THERE ARE NO MAKE-UP TESTS. If you must miss a test, please notify me before the test, if possible, or as soon as possible after the fact. If your absence is excused *with verifiable documentation*, your final exam grade will be used for the missed test grade. This exam grade replacement may be done only once. There will be NO make-ups for the final exam. **A grade of "0" will be recorded for a missed exam until satisfactory documentation is provided.**

An excused absence includes, but is not necessarily limited to, jury duty, military service, illness (doctor's note required), incarceration, hospitalization, officially sanctioned school activities. The following (not an exhaustive list) do not constitute an excused absence: travel, airline tickets, weddings, family reunions, car trouble, heavy traffic, oversleeping, work conflict. When you sign up for this class, you incur an obligation to be here. Plan your schedule accordingly.

Attendance and Administrative Withdrawal Policy: Attendance is required and roll will be checked. The instructor has the right to make changes in the pacing schedule and you need to be in class to keep current with any changes. Coming in late or leaving early may be counted as absences. If you accumulate more than 3 absences, you may be administratively withdrawn from the course. However, *if you wish to withdraw from this course, it is your responsibility to do so.* The last day you may withdraw from the course is June 4.

Help Outside of Class: I will gladly help you during my office hours provided you have made the effort to be in class and have tried to do the assigned work. The Math Learning Center also offers excellent help. Your tuition and fees give you unlimited use of the center. The Math Learning Center is located in DH 225.

Help!

- CD-ROM Digital Videos for every section of the text are in the Audio Visual Center of the Library (overnight check-out available) and the Open Access Lab (ACC 210).
- Companion Web Site <http://www.prenhall.com/sullivanstats> for practice quizzes, tutorial exercises, sample data sets, calculator help, and more. Click on the image of our textbook, then the pull-down menu for the chapter desired.
- Student's Solution Manual: worked-out solutions to odd-numbered exercises and all Review and Chapter Test exercises; sold at the TCC Bookstore.
- The Math Help Center has links to online tutorials for this and other math courses. Ask at the Math Help Center for assistance getting started with these.

Classroom Policy: No eating drinking, or smoking is allowed in classrooms. Place all trash in the appropriate container and have all beepers and cellular phones turned off during class. Any student whose electronic equipment interrupts class will be asked to leave the room and not return until the next class period. Disruptions during exams will result in the exam being confiscated and a grade of zero on the exam. I MEAN IT! TURN THEM OFF!

Students with Disabilities: Students with disabilities needing academic accommodations must (1) register with and provide appropriate and acceptable documentation to Disability Support Services in Student Union 172, and (2) *during the first week of class*, bring a letter to the instructor from the DSS indicating that you need academic accommodations. This syllabus and other class materials are available in alternative format upon request.

ACADEMIC ALERT TO STUDENTS

House Bill 1545, passed by the 1997 Florida Legislature, requires that students enrolled in the same college credit course more than two times shall pay non-resident fees for the third attempt of the course. Florida colleges and universities were required to start counting attempts beginning Fall 1997. An enrollment is considered a valid attempt if the course remains on your schedule past the published College refund date, May 12. On the third attempt, not only do you pay non-resident fees, but you may not withdraw from the course. The fourth attempt is allowed only through an academic appeals process based on major extenuating circumstances. All grades from the third and subsequent attempts will be calculated into the grade point average.

STA 2023 — Introductory Statistics
Tentative Pacing Schedule, Summer A 2008

Monday	Tuesday	Wednesday	Thursday	Friday
May 5	6 1.1, 1.2	7 1.3, 1.4	8 2.1, 2.2	9 2.2, 2.3
12 2.4, 3.1	13 3.2, Review	14 Test 1	15 3.3, 3.4	16 3.4, 3.5
19 5.1, 5.2	20 5.3, 5.4	21 5.5, Review	22 Test 2	23 6.1, 6.2
26 Memorial Day	27 6.2, 7.1	28 7.2, 7.3	29 7.4, 8.1, 8.2	30 9.1, Review
June 2 Test 3	3 9.2, 9.3	4 9.5, 10.1	5 10.2	6 10.3
9 10.4	10 10.6, Review	11 Test 4	12 4.1, 4.2, 4.3	13 4.1, 4.2, 4.3
16 4.1, 4.2, 4.3	17 Review	18 Final Exam	19	20

STA 2023 Homework

UNIT 1

- 1.1: 15–38 all, 39, 41, 43, 51, 53
- 1.2: 19–26 all
- 1.3: 9–22 all
- 1.4: 11–22 all
- 2.1: 9, 11, 13, 15abc, 17abcd, 19 omit f, 21 omit e
- 2.2: 9–21 odd, 23, 27, 32, 35
- 2.3: 7, 9, 10 (also review TABLE 19 on page 99)
- 2.4: 1, 2, 4, 9
- 3.1: 11–19 odd, 25, 31, 33, 34, 37, 47
- 3.2: 11–19 odd, 25, 31, 33, 34, 37–43 odd, 48

UNIT 2

- 3.3: 3, 5, 6, 11, 15, 17, 19, 25, 27
- 3.4: 7, 9, 11, 15, 17, 19
- 3.5: 5, 11, 13
- 5.1: 9–49 odd
- 5.2: 5–35 odd
- 5.3: 7–27 odd
- 5.4: 3–39 odd
- 5.5: 5–9 odd, 19–25 odd, 51, 52

UNIT 3

- 6.1: 7–27 odd
- 6.2: 7–27 odd, 29, 35–45 odd
- 7.1: 7–12 all, 13–35 odd
- 7.2: 5–43 odd
- 7.3: 3–31 odd
- 7.4: 3–8 all
- 8.1: 11–21 odd
- 8.2: 7–21 odd

UNIT 4

- 9.1: 7–25 odd, 31–41 odd
- 9.2: 7–27 odd
- 9.3: 5–23 odd
- 9.5: 3, 5, 7, 9, 13, 15, 17, 19, 21, 23
- 10.1: 9–37
- 10.2: 11–31 odd
- 10.3: 5–25 odd, 29
- 10.4: 3–23 odd
- 10.6: 1, 5, 6, 11, 13, 17, 19, 21

Tested only on Final Exam

On problems marked with *, do what the text asks and also do the steps a–e on the Chapter 4 handout I gave you.

- 4.1: 11–16 all, 23*, 25*, 29*, 31*, 35
- 4.2: 17*, 19*, 21*, 23*
- 4.3: 15–21 all, 25, 27, 31

Study Tips

Just as a great pianist must spend many hours practicing to develop his or her talent, and athletes must devote many long hours to practice in order to have good skills, so it is with mathematics. To become good at math, one must practice, practice, practice.

- **Make a schedule.** Choose a time each day to do your math homework. Do not have a radio or television on while you are working. **STAY FOCUSED ON YOUR WORK.** Allocate about two hours each day for math homework and study. Many students schedule this time in the Math Center to take advantage of the resources there.
- **Find your mistakes and correct them.** Rework any problems that you miss. Keep reworking the problem until you can do it without a mistake.
- **Read, do, and understand the examples in the book and in your notes.** The best way to learn mathematics is to *do* mathematics. To do well you must get out pencil and paper and rewrite both the book and your notes. You must wrestle with every step in every example. Fill in the details that are often omitted from the text. If you do not understand a step, you must keep returning to it until you do. You must work the homework with the same diligence.
- **Memorize definitions and basic identities**
- **Attend all class sessions on time.** You cannot know exactly what goes on in class unless you are there. Missing class and then expecting to find out what went on from someone else is not the same as being there yourself.
- **Read the book.** It is best to read the section that will be covered in class beforehand. Reading in advance, even if you do not understand everything you read, is still better than going to class with no idea of what will be discussed.
- **Work problems every day and check your answers.** The key to success in mathematics is working problems. The more problems you work, the better you will become at working them. The answers to the odd-numbered problems are given in the back of the book. After you complete each problem, be sure to compare it to the answer in the book. If you make a mistake, find out what it is and correct it.
- **Do it on your own.** Having someone else (this includes the solutions manual) show you how to work a problem is not the same as working the problem yourself. It is okay to get help when you are stuck. As a matter of fact, it is a great idea. Just be sure that, ultimately, you can correctly do the problem on your own.
- **Review every day.** After you have finished the problems I assigned, spend at least another 15 minutes reworking problems from previous homework assignments (both the easy and difficult ones). This will keep you from forgetting the material, and get you better prepared for the next test.
- **Don't expect to understand every new topic the first time.** Sometimes you will understand everything you are doing, and sometimes you won't. That's just the way things are in mathematics. Expecting to understand each new topic the first time you see it can lead to disappointment and frustration. The process of understanding mathematics takes time. It requires that you read the book, work problems, and get your questions answered.
- **Spend as much time as it takes for you to master the material.** No set formula exists for the exact amount of time you need to spend on mathematics to master it. You will find out as you go along what is or isn't enough time for you. If you end up spending two or more hours on each section in order to master the material, then that's how much time it takes; trying to get by with less will not work.