



Florida International University
STA 2122 Statistics for Behavioral and Social Sciences
Spring 2018 (U10)

Ms. Laura Reisert, Instructor reisertl@fiu.edu

Office Hours: GL266 T/R 5:00pm- 6:00pm and also by appointment

NO RECORDING, PHOTOS OR VIDEOS DURING CLASS WITHOUT PRIOR CONSENT

COURSE DESCRIPTION: This course introduces students to data analysis with emphasis on introductory descriptive and inferential statistics. Topics covered include data organization and analysis, probability, discrete and continuous probability distributions, sampling distributions, confidence intervals and hypothesis testing.

COURSE OBJECTIVES: Upon completion of this course, students will be able to

- Define basic statistical terms
- Classify different types of data
- Describe data with graphical and numerical techniques
- Identify the objective of inferential statistics
- Apply rules of probabilities
- Compute and interpret basic probabilities
- Identify discrete and continuous random variables
- Evaluate probability models for Binomial, Poisson and Normal distributions
- Define sampling distributions
- Describe important properties of sampling distributions
- Estimate population means and proportions with confidence intervals
- Interpret results of confidence intervals
- Make decisions about population means and proportions (hypotheses tests)
- Interpret measures of reliability associated with hypotheses test

COURSE PREREQUISITES: Working knowledge of High School Algebra

COURSE RESOURCES: All course information will be delivered through CANVAS

Both of the following are REQUIRED

- 1) We will be using **Interactive Statistics***, an on-line resource for the majority of the Course: Authors: Michael Sullivan, III and George Woodbury Publisher, 1st edition, Pearson, 2016

*Registration Information for **Interactive Statistics** will be provided to registered students registered no later than the first day of class. (Note – For Spring 2018: This is a Pilot program; no cost to students registered for section UHA–C)

- 2) Students are required to purchase the companion **Guided Notebook** to Interactive Statistics, ISBN#: 9780321782601 ****Bring workbook to each class meeting****

OPTIONAL (if you would like a textbook- both by Pearson)

- A) **Statistics, Informed Decisions Using Data** (any edition) by Michael Sullivan, III
OR
- B) **Statistics for Business and Economics** (any edition) by McClave, Benson, and Sincich

COMMUNICATION: The best way to contact me is via Canvas in-box or during office hours:

- **Email via CANVAS:** I will typically respond within a day or so (not including weekends). Feel free to re-send if you haven't heard from me within 48 hours.
- **Office Hours:** T/R GL266 5:00pm – 6:00pm and also by appointment
- **I will send announcements via CANVAS.**

GRADING: Your final grade in the course will be determined by the following:

Lab Attendance	10%	
Interactive Assignments	10%	MyStatLab
Homework Assignments	10%	MyStatLab
Quizzes	10%	MyStatLab
Exam I (Chapters 1-3, 5)	15%	Tuesday, February 6
Exam II (Chapters 6-8)	15%	Thursday, March 8
Exam III (Chapters 9-10)	15%	Tuesday, April 17
<u>FINAL (Chapters 1-3,5-10)</u>	15%	Tuesday, April 26 5:00pm – 7:00pm

Below is the minimum average needed for the following grades:

A: 90 A-: 87 B+: 84 B: 80 B-: 77 C+: 74 C: 70 D: 60 F: below 60

Note: For students who have taken both class exams, if your Final Exam % is higher than your lowest exam %, the Final Exam will replace the lowest exam score (i.e., your final exam will count twice).

HOMEWORK/QUIZZES: Interactive Assignments, Homework Assignments and Quizzes are provided in **MyStatLab. Course Name: STA 2122 Spring 2018 Course ID: reisert44128**

- Complete by due dates for up to 100% Credit
- Partial credit (60% of earned score) may be earned by completing assignments after the due date and before the corresponding Exam.
- Guided Workbook to be completed along with Interactive Assignments; this will supplement your notes.

Do not work the exercises with the sole objective of obtaining the correct numerical answer. Rather, work the problems in order to understand the conclusions in the context of the individual problem. This will help you to see the meaning and relevance of the procedures we will discuss.

EXAM POLICY:

- Bring a photo ID to each exam
- Students may use standard, scientific or graphing calculators
- **NO Cell Phone or Smart Watches** may be used as calculators
- **During exams all phones must be turned off and put away.** Any student with a phone out/visible during an exam will automatically receive a 0 (ZERO) for the exam. No exceptions. Phones are to be put away in a backpack/purse and is not to be in your lap, pocket, on the floor, on your desk...Do not take your phone out of your bag until you have exited the classroom. If a student's phone rings, beeps, vibrates, etc. during an exam, I reserve the right to collect the student's exam immediately.
- Once you begin the exam, you may not leave the classroom and return to continue working on the exam. I.e., if you leave the classroom for any reason, you must turn in your exam.
- A student arriving late to an exam may not be permitted to take the exam if another student has turned in their exam.
- Any student who does not take an exam at the scheduled time without prior consent of the instructor will receive a grade of ZERO for that exam. If you feel you have a legitimate excuse for missing an exam, contact me via email PRIOR to the exam. No Make-up exams will be given; if you provide appropriate documentation, the Final Exam will be counted twice (once for missed exam and once for Final).

INCOMPLETE GRADES will be assigned only if a student has passing status and has completed most of the coursework but is unable to finish the course due to a serious, documented interruption not caused by the student's own negligence.

EXTRA CREDIT: Several Extra Credit opportunities will be given in class throughout the semester. No make-ups will be provided – you must be in class to take advantage of these opportunities.

FORMULAS: For Class Exams and the Final, you may bring ONE sheet of paper (8 ½" x 11", front and back) with formulas and notes.

Early Alerts: In an effort to help you succeed in your academic courses, FIU utilizes an Early Alert system. Instructors are now able to notify students' academic advisors if there are concerns about class performance. If an alert is submitted, your academic advisor will send you a message via your Student Dashboard (accessed via your MYFIU page) to discuss ways to improve your performance. Please respond to any communication you receive from your academic advisor about an early alert. Our goal with this program is to help you be successful by identifying any issues as early on as possible and working to address them.

***I will submit an alert for students who score below 60% on Exam I and/or Exam II.**

Attendance: FIU will be enforcing mandatory attendance for STA 2122 during the first two weeks of classes and may drop students who do not have verified attendance. After that, attendance is not required but certainly advised. Students are responsible for everything covered during the class period, including material discussed as well as any handouts, notification of changes in exam dates, homework assignments and any other announcements.

Problems: I am committed to do everything I can to help you succeed in the course and encourage you to contact me as soon as any problems arise that may affect your performance, whether they are academic or personal. Do not wait until the end of the semester to discuss issues that arose weeks prior.

Important dates:

- Spring Break March 12 – March 18
- Last day to Drop with DR grade (no refund) - Monday, 3/19/18

FYI: It is your responsibility to save all of the materials distributed by the instructor:

- 1) Make duplicate copies of all papers and/or save all examinations and papers that are returned
- 2) Raise any questions about final grades within 45 days of the date classes begin the following semester.

Academic Misconduct:

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook. Students guilty of academic misconduct are subject to a variety of disciplinary actions ranging from a zero on an exam and F in the course to dismissal from the University (with concurrence of the President).

Mastery Math/Stat Lab 2 Participation (See detailed information at Lab Requirements link):

- You are required to spend at least 2 hours in the lab (GL 266) each week. The week runs Monday through Sunday. You need to complete your lab hour requirement by each Sunday at 6 PM. The time can be continuous or broken into smaller time periods. The total time you spend in the lab will be recorded and if it is smaller than 2 hours = 120 minutes (119 IS smaller than 120), you will get 0 for that period. Again, lab participation makes up 10% of your grade in this course. (Exception: Weeks 1 and 2 may be combined for a total of 4 hours.)
- The hours you spend in the lab **do not “roll over”** to the next period. If you spend 5 hours in one week, you are still required to spend a minimum of 2 hours in the next week. There is **also no partial credit** for earning less than required 2 hours
- You are responsible for tracking your own hours. There is a monitor in the lab that will tell you how many minutes you have accrued each week.
- You need to sign out whenever you leave the lab. This includes leaving to take a phone call or to visit the restroom.
- Lab hours are Monday through Friday, 8 am - 8 pm and Sunday, 1-6 pm.
- There is no food, gum or drink allowed in the lab.
- Cell phones must be on vibrate and put away (not on lap or in chair). If you need to answer a phone call you must sign out and leave the lab for the duration of the call.