



Florida State University, Department of Statistics
STA 1013 Statistics Through Example
3 Credit Hours
Spring 2019

Instructor: Marie Griffith

Time and Location:

STA 1013/0011 LEC MWF 8:00 - 8:50 am HCB 207

STA 1013/0012 LEC MWF 9:05 - 9:55 am HCB 207

Instructor Email: mmgriffith@fsu.edu

Office Location: 201 G OSB (Oceanography and Statistics Building)

Office Hours: Tuesdays and Thursdays 1:00 to 2:30 pm or by appointment

Prerequisite: None

Course Description

This course provides students with a background in applied statistical reasoning. Fundamental topics are covered including graphical and numerical description of data, understanding randomness, central tendency, correlation versus causation, line of best fit, estimation of proportions, and statistical testing.

Statistical thinking, relevant ideas, themes, and concepts are emphasized over mathematical calculation. In this class students learn many of the elementary principles that underlie collecting data, organizing it, summarizing it, and drawing conclusions from it.

Course Objectives

This course has been approved to meet FSU's Liberal Studies Quantitative and Logical Thinking requirements and is designed to help you become a critical analyst of quantitative and logical claims. In order to fulfill the State of Florida's College mathematics and computation requirement the student must earn a "C-" or better in the course.

By the end of the course, students will demonstrate the ability to:

- (1) Select and apply appropriate methods (i.e., mathematical, statistical, logical, and/or computational models or principles) to solve real-world problems.
- (2) Use a variety of forms to represent problems and their solutions.
- (3) Apply sound concepts of sample selection and experimental design in producing data.
- (4) Use statistical thinking in the context of work processes, academic endeavors, and everyday life.
- (5) Describe how inferential statistical methods are used to make valid judgments based on the data.
- (6) Evaluate the validity of statistical results with skepticism based on sensible considerations.

Course Materials

- **Required:** Scientific Graphing Calculator (TI-83 or TI-84 ONLY)
- **Required:** Canvas Class Website: Grades, homework, quizzes, activities, announcements and other pertinent information will be available through this site. You are responsible for assignments and announcements posted on this website, as well as those sent through your FSU email. Please check your FSU email daily.
- **Textbook:** There is not a required textbook for this course. I will give you the course notes and material that you will need for the class.

Grade Composition

| | |
|-------------------|-----|
| Activities | 10% |
| Homework | 15% |
| Quizzes | 15% |
| Common Assessment | 10% |
| Midterm | 25% |
| Final | 25% |

The common assessment is a required assessment for the Liberal Studies requirement. More information will be given later in the semester.

Grade Cutoffs

Official grade cutoffs will be established at the end of the course but will not be stricter than the following cutoffs.

| | | |
|-------------------------|--------------------------|-------------------------|
| A 94% or above | A – 90% to 93.9 % | |
| B+ 87% to 89.9 % | B 83% to 86.9 % | B– 80% to 82.9 % |
| C+ 77% to 79.9 % | C 73% to 76.9 % | C– 70% to 72.9 % |
| D+ 67% to 69.9 % | D 63% to 66.9 % | D– 60% to 62.9 % |
| F 59.9% or below | | |

Attendance/Participation

Attendance will not be taken every class period. However, there will be in-class activities given randomly and unannounced throughout the semester. If you miss class for any reason, you are still responsible for the material covered in the lecture. I suggest getting the notes from a classmate or come to my office hours for general questions. In-class activities cannot be made up or excused without a valid documented excused absence (see acceptable documentation in the section below for “Valid Documentation for Absence”). Unexcused absences in which activities are missed will result in a zero for that activity.

Homework

Homework assignments will be given in class and uploaded to Canvas a week before the due date. **No late assignments will be accepted.**

Quizzes

Online quizzes will be assigned through Canvas a week before the due date and there will be two attempts given for each quiz. **No make-up quizzes will be given.**

Exams

There will be two exams, a midterm and final. You will be allowed one 8"x 11" double sided sheet of notes during the exam.

Final Exam Dates:

8:00 - 8:50 am Lecture (Section 0011): Monday, April 29th 7:30-9:30 am HCB 207

9:05 – 9:55 am Lecture (Section 0012): Wednesday, May 1st 12:30 pm- 2:30 pm HCB 207

Make-Up Exams

Make-up exams will **not** be given unless the student has official documentation for an excused absence. Please see the **University Attendance Policy** below for more information on excused absences. It is up to the discretion of the instructor as to how to handle excused absences. No documentation will be accepted any later than one week after the absence. The makeup must be completed within one week, unless special circumstances apply, of the absence accompanied by the proof of documentation. All documentation must be emailed to me.

Final Exam Rescheduling Policy

You may not take the final exam before final exams week. Individual students who need to reschedule the final exam for a different time during final exams week will need to

- (i) talk to me about it first and get my permission to reschedule,
- (ii) fill out the "Request to Reschedule Final Examination" form at

<https://artsandsciences.fsu.edu/students/undergraduate/forms-requiring-deans-approval/rescheduling-final-examination> and take it to the Dean of Arts and Sciences office at 010 LON to get it approved, and

- (iii) bring the approved form back to me ***by the last day of classes.***

If you experience a documented emergency that prevents you from observing the above deadline, contact me as soon as you are able to, and we'll take it from there.

Valid Documentation for Absence

Valid documentation of an excused absence includes documented illness, deaths in the family and other documented crises as approved by the Dean of Students office, active military or jury duty, religious work-restricted holy days, and official University activities.

Grade Appeal Policy

You have **one** week to appeal discrepancies about a grade after it is given. To do so, please make an appointment by email or attend office hours with the assignment in hand.

Email: I will send announcements to your FSU email account via Canvas. You are responsible for all information sent via email. When emailing me regarding this class, please put STA 1013 in the subject line, sign your full name and use your FSU email account. I will respond to all email within 2 business days.

Syllabus Change Policy

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.

Sexual Misconduct and Title IX Reporting

As an instructor, I am obliged to report all instances of sexual misconduct that I become aware of; I cannot hold such information confidential. If you would like to discuss your situation in confidence, you may contact the Victim Advocate Program (<https://dos.fsu.edu/vap/>), the University Counseling Center (<https://counseling.fsu.edu/>), the Employee Assistance Program (<https://eap.fsu.edu/>), or University Health Services (<https://uhs.fsu.edu/>).

(1) University Attendance Policy:

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

(2) Academic Honor Policy:

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "...be honest and truthful and...[to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://fda.fsu.edu/academic-resources/academic-integrityand-grievances/academic-honor-policy.>)

(3) Americans With Disabilities Act:

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center; and
- (2) bring a letter to the instructor indicating the need for accommodation and what type.

Please note that instructors are not allowed to provide classroom accommodation to a student until appropriate verification from the Student Disability Resource Center has been provided.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center

874 Traditions Way

108 Student Services Building

Florida State University

Tallahassee, FL 32306-4167

(850) 644-9566 (voice) (850)

644-8504 (TDD)

sdrc@admin.fsu.edu

<http://www.disabilitycenter.fsu.edu/>