

**Instructor:** Ruite Guo

**Office:** OSB 210 E

**Email of instructor:** rguo@fsu.edu

**Office Hours:** Tu Th 10:00AM-11:00AM or by appointment

**Class Meeting Times:** Tu Th 11:00AM - 12:15PM

**Class Meeting Locations:** OSB 110

## 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.

~ The syllabus is intended to be an agreement between you (student) and instructor. ~ The presence of your name on your section roster after drop/add ends indicates that you have read and understood all of the information and documents posted under Syllabus on our STA 2122 SP17 DOCUMENTS website on Blackboard, you have had your questions about them answered, and you accept and will abide by our policies.

~ Please understand that we deal with hundreds of students each semester, and in the interests of fairness, we will not do for one student what we cannot do for all students who are likely to request the same.

~ Bear in mind that the opportunities presented in this class are made equally available to all students in the class and it is up to each individual to make the best of them.

## LIBERAL STUDIES FOR THE 21st CENTURY:

Quantitative and Logical Claims

The Liberal Studies for the 21st Century Program at Florida State University builds an educational foundation that will enable FSU graduates to thrive both intellectually and materially and to support themselves, their families, and their communities through a broad and critical engagement with the world in which they live and work. Liberal Studies offers a transformative experience; this course has been approved as meeting the Liberal Studies requirements and thus is designed to help you become a critical analyzer 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.

## COURSE DESCRIPTION

Prerequisite: A grade of "C-" or better in MAC 1105 College Algebra (or equivalent).

Special Note: No credit given for STA 2122 if a grade of "C-" or better is earned in STA 2171, STA 3032 or QMB 3200. The course covers Normal distributions, sampling variation, confidence intervals, hypothesis testing, one-way and two-way analysis of variance, correlation, simple and multiple regression, contingency tables and chi-square tests, non-parametric statistics.

The purpose of this course is to prepare students for further study and job preparation in the field of Natural Sciences. It will emphasize understanding of data and interpretation of statistical

analyses. It will require students to think of data, and report the results of their analyses, in context.

## **COURSE OBJECTIVES**

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

(1) Analyze and address problems drawn from real world scenarios by applying appropriate mathematical, statistical, logical, and/or computational models or principles.

(2) Interpret and evaluate data and information as presented in a variety of modes (such as tables, graphs, and charts), using appropriate technology. They will also be able to clearly communicate a summary of their findings to peers.

The above two competencies will be assessed in the L.S. Quantitative Assessment for STA 2122, which includes a written summary of results.

(3) Use descriptive statistics and graphical methods to summarize data accurately.

(4) Use inferential statistics to make valid judgments based on the data available.

(5) Select the appropriate statistical tools to analyze a particular problem.

(6) Describe the goals of various statistical methodologies conceptually.

(7) Develop a healthy skepticism toward statistical studies and their results based on a sensible consideration of the techniques employed.

## **REQUIRED MATERIALS**

The textbook for this class will be Applied Statistics in Business and Economics (5<sup>th</sup> ed.). You will need to read each set of class notes carefully after we cover them in lecture and before the quiz that follows.

Class notes: You will need to print out class notes from our Blackboard STA 2122 SP17 DOCUMENTS website and bring them to class on a regular basis, so please budget some money for printing. The current estimate of your printing costs for the entire term is \$80.00 (about 400 pages @ 20 cents/page).

Writing materials: Notepaper and sharpened pencils.

Calculator: TI-84 Plus or equivalent.

## **ATTENDANCE, ABSENCE AND DROP/WITHDRAWAL**

~ We fully expect to see you at every class meeting. First-day attendance will be taken electronically via Blackboard, however we still expect to see you in class on the first day.

~ Drop and Withdrawal deadlines are given in the University's academic calendar at [http://registrar.fsu.edu/dir\\_class/spring/acad\\_cal.htm](http://registrar.fsu.edu/dir_class/spring/acad_cal.htm).

~ If you miss class, we expect you to keep up-to-date with the lessons, activities and announcements by getting in touch with a classmate or with us, and by reading the Class Log on our STA 2122 SP17 DOCUMENTS website on Blackboard.

~ If you miss lecture, you may get the notes from me. We will let you copy down notes two times only, so do not make a habit of missing class. We will not re-teach entire lessons, but after you have studied the material that you copied down and attempted the relevant exercises, we will help you with specific questions you may have.

~ If you miss the final exam, immediately email me.

## **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.

## EMAIL & COMMUNICATION

- ~ please check the Class Log on our STA 2122 SP17 DOCUMENTS website in Blackboard every day to keep up with what's happening in class
- ~ please check your @my.fsu.edu email every day for emails from us
- ~ if you email us, please send from your @my.fsu.edu account
- ~ always include your name when you send email to me, if we need to know this information in order to answer your query, and you have not provided it, you may not get a response
- ~ send assessment-related questions at least 24 hours before the assessment is due to begin
- ~ be aware that email sent from outside the FSU domain may not get through to us, so if you send an email and you don't get a response within two working days, please try to meet us in person before class, or after class, or during office hours.

## ASSESSMENT AND GRADING

WE WILL ALLOW ABSOLUTELY NO MAKE-UPS, NO EXTRA CREDIT ASSIGNMENTS, AND IN GENERAL, NO OPPORTUNITIES FOR GRADE IMPROVEMENT, AFTER THE LAST DAY OF CLASS, SO PLEASE DO YOUR BEST DURING THE TERM.

We reserve the right to impose a penalty on your assessment grade if you violate any of the guidelines below. Please read this entire policy carefully and understand it well, as exceptions will not be allowed.

## Missing Grades

- ~ be sure to attend the recitation section in which you are enrolled to avoid missing grade issues
- ~ check your Blackboard section website every week to make sure your latest grade has been posted, please do this even if you already know your grade
- ~ if a grade is not posted, alert me via email, it is important that you alert us via email so that there will be a record of the fact that you reported the matter
- ~ if you report a missing grade within two weeks after the assessment took place, we will do our best to locate your missing grade
- ~ if you report a missing grade more than two weeks after the assessment took place, we will not be able to help you and the missing grade will have to remain as a zero grade

## Overall Course Grade

We do not do our grade calculations in Blackboard at all, we only use the Blackboard grade center to store and display grades. Please ignore the grade totals or averages that you may see there.

All grades will be recorded as percentages, and these percentages (not points) will be used in your overall course grade calculation as follows:

- (i) calculate the average of your Quiz percentages, this is your Quiz Average,
- (ii) overall numerical course grade =  $0.25 \times \text{Quiz} + 0.25 \times \text{Midterm} + 0.5 \times \text{Final}$ ,  
**rounded UP to the next higher whole number.**

Letter	Final Grade	Letter	Final Grade
A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	0-59

## Grading Appeals

During the course of the term, if you believe that a paper was improperly graded, email me and make an appointment to go to their office to see your paper and discuss it with me.

## Receiving a grade of “Incomplete”

A request for a grade of “Incomplete” will

- ~ NOT be granted if you have completed all of the coursework.
- ~ be granted only if both of the following conditions are satisfied:
  - (1) you have completed all of the quizzes and activities, and
  - (2) your overall average excluding the final exam is a passing grade.

## STUDENTS SWITCHING SECTIONS

When you switch sections, your grades are permanently deleted from your old Blackboard section website. Always inform us before you switch so that we may keep a copy of your previously earned grades.

### STUDENTS COMPLETING AN INCOMPLETE OR AUDITING

If you are auditing this course or attending it to complete an "Incomplete" earned in a previous term, make yourself known to me so that I may let you have access to our current Blackboard websites. If you are auditing, you must register with the University to do so. If you are completing an "Incomplete", let me know who your former instructor was so that I may inform them of your grade at the end of the term.

### 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/Academics/Academic-Honor-Policy>.)

## **AMERICANS WITH DISABILITIES**

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. This should be done during the first week of class.

We will begin providing special accommodations as soon as possible after I get your letter. You must take your quizzes and final exam at the SDRC testing center, and on the same day as the other students take them in class. If you need to take a quiz or the final exam on a different day, please talk to me about it first. Please do not schedule a quiz or the final exam for a different day without first clearing it with me. If you choose to take a quiz or the final exam in the regular classroom or at some other location, you forfeit your special accommodations and you must comply with the rules that the other students follow. In particular, we will not be able to allow you extra time in the regular classroom. You may choose to complete the activities in class or at the SDRC testing center. Please note that some activities are designed to be group efforts, so you may not fully grasp the learning objectives if you do them on your own. In my experience, however, students with disabilities have always elected to complete the activities in class and have not had significant problems doing so. Classmates are generally co-operative and helpful. 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/>