



DEPARTMENT OF STATISTICS

STA 2122- 0020 & 0035

INTRODUCTION TO APPLIED STATISTICS

SYLLABUS FOR SPRING - 2021

INSTRUCTOR's NAME: Sayantika Nag

COURSE WEBSITE: canvas.fsu.edu

EMAIL: snag@fsu.edu

OFFICE HOURS: on Zoom, by appointment.

This class will be taught [remotely](#) and [synchronously](#) for the time being. Policies might be updated later. I would be uploading lecture videos on class days by 1:30 pm on CANVAS. [Please make sure you turn on your CANVAS notifications.](#)

LIBERAL STUDIES FOR THE 21st CENTURY:

Quantitative and Logical Thinking This course (STA 2122) 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.

COURSE DESCRIPTION:

Prerequisite: A grade of "C-" or better in MAC1105 College Algebra(or equivalent).

Special Note: Subsequent credit for STA 5126 is not permitted. 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) 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.

The above two competencies will be assessed in the Liberal Studies Quantitative Assessment for STA2122, 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:

~A computer and reliable internet connection, Chrome or Firefox Browser.

~TI-84 Plus or equivalent calculator. I will be helping you by teaching how to use a TI-84 series calculator, but I cannot promise to be able to help you with any other sort of calculator

~No textbook is required for this course. However, you need to watch the lecture videos and study the notes used in the videos.

A free 90-day trial version of TI Emulator downloadable from:

<https://education.ti.com/en/software/details/en/FFEA90EE7F9B4C24A6EC427622C77D09/sda-ti-smartview-ti-84-plus>.

~Optional Material: Paper or Tablet to take notes on, while watching the lecture videos.

LECTURE VIDEOS:

Watching the lecture videos is equivalent to attending class and listening to lectures. We acknowledge that the lecture videos are sometimes not short. But, please remember that class time would have been 50 or 75 mins- not short either. On the bright side, however, you may pause the video at any time and return to it later, which would not have been possible with live lectures. Therefore, we fully expect you to watch the lecture videos in their entirety. **Pause whenever you need to, but always be sure to return and finish watching the video.**

Please note that the recorded lectures are the property of Florida State University and are made available only to students enrolled in this class. Students are not permitted to share the recorded lectures with any other persons outside of this class. Copyrights of the recorded lectures are reserved by the instructor and Florida State University.

EMAIL AND COMMUNICATION:

~ Please **turn on the course notifications in Canvas** by going to Account / Notifications / and checking the *Notify me right away* option for all of the items under Course Activities.

~ If you email me, please send from your [@my.fsu.edu](mailto:my.fsu.edu) account.

- ~ 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. Typically, I try to reply within one-two business days.

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. Assessments that are not submitted will receive a grade of zero. When a makeup is submitted, the zero will be replaced with the earned grade. All assessments will be open notes.

Open Notes includes, all the material provided in class and your personal notes. Taking help from different tutoring websites, will be counted as a breach of University Academic Honor Policy.

No make-ups are allowed unless there is an acceptable reason with proper documentation.

NOTE ON TECHNOLOGY DEPENDENT ASSESSMENTS:

This course is heavily technology dependent. While we will do our best to work with you on technology issues, please be aware that if you take an assessment but we can find absolutely no record of the fact, then we will not be able to give you credit for it. Please DO NOT USE SAFARI when you take assessments on Canvas – please use Chrome or Firefox.

Your Overall Course Grade will consist of the following:

ASSESSMENT		WEIGHT
OPEN QUIZZES (OQ)	Collaboration allowed, 10 attempts, lowest one dropped	25%
LSQA	No Collaboration allowed, 2 attempts, cannot be dropped	10%
TIMED QUIZZES (TQ)	No Collaboration allowed, 2 attempts, lowest one dropped	65%
TOTAL		100%

DUE DATES WILL BE AVAILABLE ON CANVAS.

TENTATIVE PACING SCHEDULE: Provided as a separate attachment.

TEST QUESTION SECURITY & ACADEMIC HONESTY:

This being an Online class, all the tests and quizzes will be online. However - You will be required to make a pledge of academic honesty once you enter the Test. We regret to say that if you do not sign the pledge and affirmations, we will not grade your assignment and your grade will be zero. Please bear in mind that academic dishonesty and question disclosures reduce the worth of the academic qualification that you are working toward.

GRADE REVIEW:

If you believe that a correct answer was counted as incorrect on a quiz, **please email me about it within 24 hours after you submit the quiz.** If it turns out that your answer was correct, you will be given credit for it.

RECEIVING A GRADE OF “INCOMPLETE”:

A request for a grade of “Incomplete” will

~ NOT be granted if you have completed the coursework, including the final quiz and excluding the allowable absences.

~ be granted only if **both** of the following conditions are satisfied:

(1) the only assessment that you have yet to take is the final quiz, and

(2) your overall average excluding the final quiz is a passing grade (70% or above).

OVERALL COURSE GRADE:

Please ignore the grade totals or averages that you may see on the course website; they are not correct. In this class, we only store and display individual assessment grades on the course website, we do not do grade calculations there. All grades will be recorded as percentages, and these percentages (not points) will be used in your overall course grade calculation. Refer to the Assessment Weights provided to calculate your current grade.

Course Letter Grade

Numerical	Letter	Numerical	Letter	Numerical	Letter	Numerical	Letter	Numerical	Letter
≤59	F	67–69	D+	77–79	C+	87–89	B+	FSU does not award A+	
		63–66	D	73–76	C	83–86	B	≥93	A
		60–62	D-	70–72	C-	80–82	B-	90–92	A-

MISSING GRADES AND GRADING APPEALS:

~ check your grades on the course website every day 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 immediately 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 working days** after the assessment took place, we will do our best to locate the missing grade.

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>)

ATTENDANCE, ABSENCE AND DROP/WITHDRAWAL:

~ Drop and Withdrawal deadlines are given in the University's academic calendar at <https://registrar.fsu.edu/calendar/>.

~ First-day attendance is mandatory per university regulations. Therefore, I will expect that you take the **Attendance Quiz on Canvas by August 25th, 11am**, as a proof of your attendance.

~ You are expected to adhere to all assessment deadline.

~ Lack of future planning, or mismanagement of time and other resources, are not acceptable reasons for missing a assessment deadline.

~ Please 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 most of these opportunities.

~ 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.

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.

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

~ Talk to me about it first and get my permission to reschedule,

~ fill out the "Request to Reschedule Final Examination" form at <https://artsandsciences.fsu.edu/students/undergraduate/forms-requiring-deans-approval/rescheduling-final> -examination and get it approved by the Dean of Arts and Sciences office,

~ let me have the approved form 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.

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/>).

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.

AMERICANS WITH DISABILITIES ACT:

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Office of Accessibility Services; 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 Office of Accessibility Services has been provided.

Academic accommodations will be provided as soon as possible after we receive notification from the OAS.

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:

Office of Accessibility Services, 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/>

