STA2122 Introduction to Applied Statistics (3 credits)

A. Term: Fall 2025
B. Section: 0008, 0009
C. Delivery Method(s)/Location: F2F – HCB 217

D. Instructor Information
Name: Chaeyoung Lee
Contact Information: cl23k@fsu.edu
Office Hours: Every Monday 11:30-12:30 **(Visits are always welcome—bring course questions, tricky topics, quiz items, or anything else on your mind. I'm here to help you ☺)**
Office Location: OSB (Rogers Building) 342

E. Prerequisites or Co-requisites
Prerequisite: MAC 1105. 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.

F. Course Description
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.

G. Course Objectives
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. 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.

H. CoreFSU Syllabus Language
This course has been approved to meet FSU's CoreFSU Quantitative and Logical Thinking requirements and helps 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.

I. Required Texts, Readings, and/or other Resources

~ A personal computer, reliable internet connection, and Chrome or Firefox browser.
~ A TI-84 Plus or equivalent calculator or app.
~ A textbook is not required. Notes and exercises will be posted on Canvas.

J. Tentative Course Schedule

Will be on a separate pdf file.

K. Grading/Evaluation

a.

Component / Category	Percentage Weight	Graded for	Help permitted	Number of submissions permitted	Done where
QLT assessment	10%	Accuracy	No	2	Online (Canvas)
Online quiz	30%	Accuracy	No	2	Online (Canvas)
In-person quiz	20%	Accuracy	No	1	In class
Individual assignment	10%	Accuracy	No	1	Out of class
Group assignment	20%	Participation + Accuracy	Group work	1	In class
Participation	10%	Participation	--	--	In class
Total	100%	---	---	---	---

- QLT Assessment: One online quiz will be assigned for QLT Assessment
- Online Quiz: 5 take-home online quizzes on Canvas (open book)
- In-person Quiz: 2 quizzes during class (closed book but cheat sheet allowed)
- Individual assignment: One individual assignment
- Group assignment: Two group assignments (In-class)
- Participation: Attendance check during class. **To accommodate situations beyond your control, <u>first THREE unexcused absence won't affect your participation grade</u>.**
    - **Unexcused absence:** Absence without any notice prior to class
    - **Excused absence: Must give notice prior to class AND provide official document (e.g. sick note, official document from school)**

b. Letter grades will be selected from the table below after rounding the numerical course grade up to the next higher whole number.

A ≥93 **A- 90-92**	**B+ 87-89** **B 83-86** **B- 80-82**	**C+ 77-79** **C 73-76** **C- 70-72**	**D+ 67-69** **D 63-66** **D- 60-62**	**F ≤59**

c. **The use of AI (artificial intelligence) and unsanctioned internet sources is not permitted on any of the assessments in this class.** All internet sources (apart from the course Canvas) are considered unsanctioned unless the instructor specifically states in writing that a given source is sanctioned.

L. Syllabus Change Policy

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

M. University Policies and Syllabus Language

Visit link below to review

University Attendance Policy
Academic Honor Policy
Americans With Disabilities Act
Academic Success
Free Tutoring from FSU
Statement on Public Health Protocols

https://facsenate.fsu.edu/Curriculum-Resources/syllabus-language