

STA2122-0021 Spring'21 Syllabus

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Instructor Information

Instructor: Roland Moore

Cell Phone: 503-349-3199 (expect responses within a few hours, sometimes I may need to call instead of texting to clarify something when it's convenient)

Email: rm16n@my.fsu.edu (expect responses within a few hours during weekdays; ***title your email STA2122-0021 question, clarification etc.***) because I have another section of STA2122 online class, so you must indicate the class from which you are emailing.

Office: Room 208B1 in Statistics Dept.; 214 Rogers Building (OSB), 117 N. Woodward Ave.

Office Hours: By appointment and will be held on zoom since this is an online class.

I can also use video call on Google and/or WhatsApp to hold long distance discussions by appointments.

Mentor (TA): Keqian Min

Email: km17g@my.fsu.edu

Keqian Min will help answer/ address assignment/quiz questions emails from you, to provide faster response times. She will also check-in weekly with you regarding your weekly assignments and assist with various grading tasks relating to this course.

If you have assignment/quiz questions please email the TA and 'cc' me on it: Always please title your email *STA2122-0021 question, clarification,...etc.* We are handling two different STA2122 online classes, so you must indicate the class from which you are emailing.

Also, if you email me and do not hear from me for a day or two, please resend your message. Since the class is large and I have two sections, I can unintentionally forget to respond to your email. So, it is okay to resend your message if necessary.

Course Information

Basic Course Information:

University: Florida State University

Department Name: Department of Statistics

Term/Year: Spring, 2021

Course Code/Section Number: STA2122-0021

Course Name: Introduction to Applied Statistics

Credit Hours: 3

Class Meeting Days/Times/Location: This is an online course (even before the pandemic) so there is no Class Meeting Zoom/Days/Times/Location. Also, **HonorLock is the online testing agency required for the proctoring of the Common Assessment (CA) [midterm quiz] and the Final Exam Free of fees. Common Assessment (CA) is a special quiz/test required by the FSU for certain STEM core courses. This quiz is based on chapter 16 and a very small portion from chapter 18.**

Therefore, the quiz/test and final exam will be taken at your home through HonorLock online proctoring system for free for all students. You will be notified at least one week in advance of which window of time (normally, within three days' time) you will be taking the test/exam.

Also, the platform software website for this class is Achieve (learning software) from Macmillan. This site will host your weekly graded assignments, as well as where all your course scores will be. No course scores for grades will be aggregated directly on canvas; even the test scores on Canvas will be transferred to Achieve.

Special Requirement:

Since this is an online class, it is COMPULSORY for every student to read the syllabus in full, constantly read every course announcement, and regularly check their FSU emails for the course communications. FSU email should be used for everything concerning this class. Also, it is the students' responsibility to keep the Achieve link (or bookmark) and password for this course. This a self-motivating online course. It is not instructor's responsibility to motivate you. Drop this class and enroll in a regular face-to-face course if you need the instructor to motivate you.

You are to register only once on Achieve. Also, call Achieve technical support (1800-936-6899) for all technical issues.

Required Material/ Resources:

1. Achieve. See last page of syllabus. This has the e-textbook requirement as well as the instruction/ direction and assignments and quizzes for the course. No other materials are required. You will have access to Achieve for free since this is the first time this class is moving from the seventh edition on Launchpad to the ninth edition on Achieve: (Usually, students buy the access to the learning software for around \$100). **However, you will have to fill out an end-of-semester feedback survey. *It is mandatory to use your FSU email only to register on Achieve.*** You will be provided with free access code for Achieve later. **Call Launchpad technical support (1800-936-6899) for any technical issues (non-course content related) help you pay and restore your access.**
2. **TI-84, TI-84+ or equivalent Graphing Calculator- Very Important course companion**

If you use any of the above model TI- calculator, the course can be extremely easy, and very short video links for almost all chapters are provided in the file tab on canvas for you. So please borrow or buy one and use it for this class. It will save you a lot of time, energy, challenges when solving problems and doing the CA and final exams.

NEW: The Statistics department now requires every student to use the TI calculator for this course (mandatory). No distribution tables are allowed anymore for exams. Only graphing (especially TI) calculators are allowed now; even though the textbook will refer to distribution tables sometimes. It is the student's responsibility to make use of the short video tutorials on Canvas and YouTube to learn how to use the calculator to do the problems.

Recommended if you don't have Required TI Calculator

The TI-94 Plus calculator is available electronically as the TI-SmartView Emulator Software for the TI-84 Plus Family. It generally costs less than a physical calculator. A free 90-day trial version can be downloaded from

[https://urldefense.com/v3/_https://education.ti.com/en/software/details/en/FFEA90EE7F9B4C24A6EC427622C77D09/sda-ti-smartview-ti-84-plus_!!Epnw_ITfSMW4!_eKJlxcGilwJrCt8s8Hm4gOWKEcLairaH9KLM4FyatilnwB829qlkGqB7QRRjQlwxg\\$](https://urldefense.com/v3/_https://education.ti.com/en/software/details/en/FFEA90EE7F9B4C24A6EC427622C77D09/sda-ti-smartview-ti-84-plus_!!Epnw_ITfSMW4!_eKJlxcGilwJrCt8s8Hm4gOWKEcLairaH9KLM4FyatilnwB829qlkGqB7QRRjQlwxg$) .

It would be possible to extend the 90 days to cover the entire semester if you uninstall the Emulator when you're studying a chapter that doesn't require special statistical functions and reinstall it when you need those functions.

Do not forget; you will have to borrow a physical TI-84 for your HonorLock tests though.

General Course Information:

Prerequisite/Notes:

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

No credit is necessary for STA 2122 if a grade of “C-“ or better is earned in STA 2171, STA 3032 or QMB 3200. **Special Note:** Subsequent credit for STA 5126 is not permitted.

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.

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 Liberal Studies Quantitative Assessment for STA 2122 (Common Assessment), 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.

Important Dates:

First Day Attendance: Represents registering on Achieve. Due by Friday, January 8th at 11:59pm: See Achieve Link on Last page to register. If you are not registered on Achieve by then you will be automatically dropped from the course. If you signed up for the class late, register on

Achieve ASAP and after, email me to let me know that you signed up for the class late, but you successfully registered on Achieve (very important).

Common Assessment (CA): Due from March 1st-3rd: You can do the CA any day and time within this time window on Honorlock in the Canvas course site.

CA will be based on Chapters 16 & a very small part of chapter 18: A short but focused review questions with answers will be given to you to help you prepare for it and make it easy for you.

Final Exam: Due by Wednesday, April 21st, but starts on Monday, April 19th: You can do the final exam any day and time within this time window (April 19th -21st) in the Honorlock system in the Canvas course site.

Word document of practice test questions with answers will be put (under the file tab) on canvas later in the semester to help students prepare for the final exam. The final exam is comprehensive one, involving all chapters. Results of the final will be curved in some way: (Mostly, everyone who takes the final, which is multiple choice and True-False questions only, gets at least 10 bonus points added to their final exam score but no not to exceed 100%. This means if I settle on giving a bonus of say 10 points, if someone gets 75% on the exam, that score becomes 85%. However, if another person scores 95% on the exam, the person will only get 100% and not 105%).

How to use Honorlock Student Video link: https://honorlock.kb.help/-students-starting-exam/how-to-use-honorlock-student/?utm_source=Honorlock+Education+Partners&utm_campaign=7426ffe5c9-EMAIL_CAMPAIGN_2020_01_13_03_32_COPY_01&utm_medium=email&utm_term=0_ec99a1b5b3-7426ffe5c9-389260261

Holidays of Note:

Jan. 18, 2020	Martin Luther King, Jr. Day
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Pacing Schedule:

All assignments are due at 11:59pm. Grades will submit automatically at this time, even if you are working on them. Note that chapters have both a quiz and assignment component to complete.

Date	Chapters Due	Other Assignments Due
January 9 th	1 (plus Achieve Orientation assignment)	None
January 16 th	2	None
January 23 rd	3	None
January 30 th	4, 5	None

February 6 th	6, 8	None
February 13 th	15	None
February 20 th	16	None
February 27 th	17	None
March 6 th	18	None
March 8 th – 10 th	CA on Canvas in HonorLock	Ch. 20 due Saturday
March 13 th	20	None
March 20 th	25	None
March 27 th	26	None
April 3 rd	27	None
April 10 th	28	None
April 17 th	29	None
April 19 th - 21 st	Final Exams on Canvas in HonorLock	None

Studying and Doing the Weekly Assignments

Click on the assigned chapter (unit) that you want to do on Achieve. You may use any part of the chapter to help you learn. However, I will provide lecture slides with great summary of each chapter on Canvas. You may read over the **lecture slides** before and after the **StatTutor tutorials**. You may watch *the excellent worked out example videos* in the **student resources folder of each chapter**. Then do the **Learning Curve (LC)**, and then the **chapter quiz**.

Therefore, for each chapter, do only StatTutor Tutorials, Learning Curve (LC), and Quizzes: Your grades will depend on these three.

All other items and sections are just to help your greater understanding of each chapter. Thus, each chapter assignment for this class is **only** StatTutor Tutorials, LC, Quizzes.

Please notify the TA/ instructor ASAP if Assignments with due dates approaching within the week is not already opened and appearing to students.

Assignments

Types of Assignments:

Weekly assignments: Weekly assignments are assigned on Achieve. Weekly assignments are always due on Saturdays at 11:59pm. NO EXTENSIONS!

All weekly assignments for each month are opened in advance. Others may remain closed till the beginning of the next month. If we get to the next new month, and the next set of assignments are not opened, please email the instructor/ TA ASAP to open them.

You must Do the StatTutor tutorials, read the assigned chapter(s) lecture slides provided on Canvas, and go over the example video tutorials in the chapter student resources when necessary, then do the chapter Learning Curve (LC) first followed by the chapter Quiz. (You can also read the ebook (or part of it) for further details and clarification if necessary). **Two (2) chapters (instead of one chapter) assignments are due on the 4th and 5th week. This will require twice as much time as usual. So please plan accordingly.**

*You may ask for content clarification or questions through email to the TA and myself: So that either of us can answer. This may help with the promptness for which your question is answered. You may also text or call my provided cell phone when necessary; **BUT you must at least Do the StatTutor tutorial read the lecture slides on your own first.***

Quizzes: Quizzes are assigned together with StatTutor Tutorials and Learning Curve (LC). Quizzes plus StatTutor Tutorials and LC are always due Saturdays at 11:59pm. NO EXTENSIONS! Each quiz can be taken only one time but each question has two attempts without penalty.

Special Note: *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.*

Tests: See Common Assessment (CA) and Final Exam above. There are no other tests beside these.

Assessments that are not taken, and assignments that are not submitted, will receive a grade of zero. When a missed assessment/assignment is made up, the zero will be replaced with the earned grade.

Grading Structure:

Weights: StatTutor Tutorials – 20%, Learning Curve (LC)- 25%, Quizzes – 15%, Common Assessment 10%, Final Exam – 30%

Letter Grades:

A	93 to 100
A-	90 to 92.9
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	Less than 60

Individual students may choose to receive an S/U grade, see here for details: (<https://news.fsu.edu/announcements/covid-19/2020/03/25/spring-2020-grading-options-for-undergraduate-classes/>). Therefore, if you choose to receive an S/U grade, then you will be awarded an S if you earn a C- or better, or a U if you earn a D+ or worse.

Late Work:

Absolutely NO late work is accepted without documentation. Since this is an online course, it is very fast paced so students must plan on completing work before or on the due dates.

Absolutely NO reschedule/ extensions for missed scheduled exams/tests without valid emergency documentation is allowed. Missed assignments and/or tests/quizzes will receive a 0%.

If I/ TA decide to extend any missed assignments without proper documentation, it will just be a favor but not the norm.

Grade Appeals:

Errors in grades or assignment disputes MUST be reported immediately or within one week. No grades will be adjusted after the final week in the course. Also, there is **No Extra Credit Whatsoever for this class.**

Absolutely No extra credit is given under any circumstances.

Course Records: Please Note that all course score records for grades calculation will be on Achieve. You will take the CA and final exam on Canvas but the scores of these will be transferred to Launchpad. So please ignore scores on Canvas when it comes to finding your overall grades.

Mandatory Syllabus Statements

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.

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 Act

Florida State University (FSU) values diversity and inclusion; we are committed to a climate of mutual respect and full participation. Our goal is to create learning environments that are usable, equitable, inclusive, and welcoming. FSU is committed to providing reasonable accommodations for all persons with disabilities in a manner that is consistent with academic standards of the course while empowering the student to meet integral requirements of the course. To receive academic accommodations, a student:

- (1) must register with and provide documentation to the Office of Accessibility Services (OAS);
- (2) must provide a letter from OAS to the instructor indicating the need for accommodation and what type; and,
- (3) should communicate with the instructor, as needed, to discuss recommended accommodations. A request for a meeting may be initiated by the student or the instructor.

Please note that instructors are not allowed to provide classroom accommodations to a student until appropriate verification from the Office of Accessibility Services 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

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)

oas@fsu.edu

<https://dsst.fsu.edu/oas>

Liberal Studies for the 21st Century

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.

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 advanced 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/>).

Email & 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. You may expect a response to your email within two workdays.

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 get it approved by the Dean of Arts and Sciences office, and

- (iii) 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.

Helpful Personnel Resources Links

1. Link to resources at the Office of Faculty Development and Advancement:
<https://fda.fsu.edu/academic-resources>.
2. Link to the flowchart for resolving academic problems:
https://fda.fsu.edu/sites/g/files/upcbnu636/files/Media/Files/General%20Academic%20Appeals/Academic_Problem-Solving_Flowchart_Binder_Oct-2020.pdf

Achieve Link and Access Code to Register are Below

Link: <https://achieve.macmillanlearning.com/courses/h78jf4>

Access Code: **L6K7FDE5**

Course ID: h78jf4

Roland Moore

rm16n@my.fsu.edu